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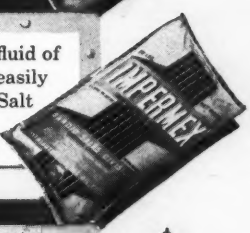

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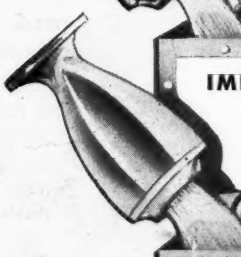

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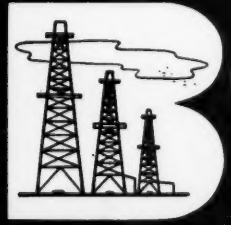

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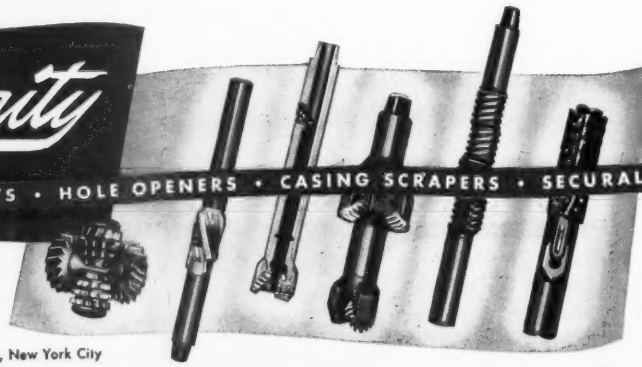

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CALIFORNIA
OIL WORLD

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August 31st, 1951
Telephone DUnkirk 2-6218

Washington Highlights

According to Senator Connally, Democrat of Texas, there will be no change in depletion allowances for oil and gas producers in the new tax bill.

Seeking to break a bottleneck in machine tool manufacture, Defense mobilizers are expected to soon announce a third ceiling price increase. Toolmakers probably will be allowed to add 12 per cent to their ceilings as a further incentive to more rapid output.

Information received here from Bonn denoted that oil wells in West Germany are becoming more and more important in the country's economy. Current output in West Germany is 1,100,000 tons a year, not much compared with production in the United States or Venezuela. Nevertheless, about one-quarter of home needs in West Germany are filled by home production of oil. Annual output in 1936 was 450,000 tons. All parts of the country are being combed for new oil supplies. Exploration drilling is progressing in North Sea coastal area, in South Germany and in Hesse. At the latter West Germany's biggest oil fire blazed up when drillers hit a natural gas zone.

Senator Kefauver, Democrat of Tenn., has requested friends to stop circulating petitions to place him in May Oregon primary as a Presidential candidate.

Civil Defense Administrator Millard Caldwell said on a recent radio broadcast from here that not one city in the United States "has even approached the point where it could withstand an atomic attack now."

The National Production Authority, U.S. Department of Commerce, has set up a priorities assistance system to aid petroleum operators to obtain needed materials for foreign operations. The new order, NPA M-46A, applies to all petroleum activities in countries other than the United States and Canada. Operations in these two countries are included in order NPA M-46. A combination of the Office of International Trade and the Economic Cooperation Administration will administer the new order.

Hopes are fading that the present session of Congress will see the Senate act on legislation affecting control of submerged lands off the California coast and tidelands of other states.

The Petroleum Administration for Defense has told the Defense Production Administration that the petroleum industry will require a minimum of 200,000 to 300,000 tons more steel plate each quarter throughout 1952 than were apportioned for either the third or fourth quarter of the current year.

The Defense Department has the green light from the House Appropriations Committee to expend $11,800,000 on Naval petroleum reserves during the current fiscal year, including construction of a $4,000,000 natural gasoline plant in the Elk Hills reserve. The Committee also approved an expenditure of $1,500,000 for needed gathering lines and drilling of 101 new wells at a cost of $5,150,000. Also proposed was an additional $850,000 to maintain the reserve in proper shape for immediate maximum output should a national emergency arise.

Representative Wilson D. Gillette, Republican of Pennsylvania, 71, died at his Towanda residence of bronchial pneumonia.

President Truman has received word that his name will be entered in the March 18 Minnesota primary, second of 16 convention delegate elections to be held next year.

The Senate Finance Committee has approved a bill passed by the House exempting military personnel from the 20 per cent Federal admission tax on amusements when they are admitted free.

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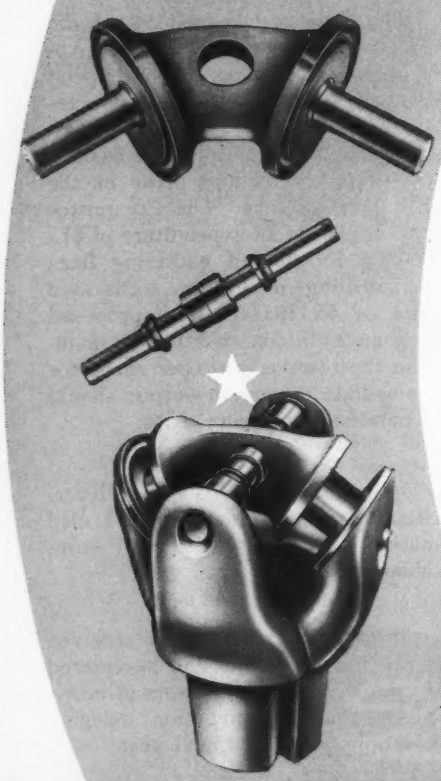

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Wilshire Revamps Refinery

By Maurice A. Machris
Vice Pres. Wilshire Oil Company

In the past 12 months, the Wilshire Oil Company, of Los Angeles, has completely revamped its Norwalk refinery in order to meet the needs of the time. In so doing Wilshire again demonstrates the advantages that accrue to organizations with compact management capable of making decisions quickly. The basic revamp started out to include, in Wilshire's better than average topping and thermal cracking operation, a catalytic cracking unit operated by them during the war but in the face of the current TEL shortage, wound up by tying in the catalytic cracking unit **and** putting into service a reforming heater that had stood idle since the war years. A vacuum feed stock preparation unit was also built, together with a high pressure poly plant. All this was done while maintaining the usual on stream efficiency of the Dubbs unit.

Basically, the processing equipment consists of a combination crude and a two coil thermal cracking plant (Dubbs unit) and auxiliaries for treating gasoline, a gas recovery plant permitting the production of poly feed stock or B-B and LPG, a poly plant (low pressure type), and hydrogen sulfide absorption equipment to permit removal of H_2S from the refinery fuel gas—in compliance with the Los Angeles County Air Pollution stipulations. The crude running capacity of this combination unit is in the order of 22,000 barrels per calendar day.

The catalytic cracking unit is a Fluid type unit, designed by the Universal Oil Products Company, of 4000 barrels nominal capacity, and operated by Wilshire during the war in conjunction with DPC alkylation and isomerization facilities for the production of aviation gasoline.

The catalytic cracking unit was shut down after "V-J" day and conditioned for stand-by service as were the other DPC facilities. Wilshire acquired the DPC facilities in the spring of 1950.

The acquisition of the cat cracking facilities was prompted by the need for producing more gasoline, better gasoline and a lesser amount of fuel from the crude processed.

Maurice A. Machris

In the interim between "V-J" day and now, fluid cat crackers built during the war have operated continuously and have been markedly improved as regards capacity, maintenance, and operating costs. Units of this so called "old type" do much better now as regards earnings than when they were first built and operated. Thus before the unit at Wilshire was tied into the operations, it was necessary to adopt those modifications which would bring about the improved operation now possible with these "old type" units. The steps taken in the modernization of this plant have been described elsewhere. The unit is in its fifth month of operation.

In bringing about the tie-in of the catalytic cracking plant and the thermal unit, it was necessary to effect this combination without sacrificing the utility of Dubbs unit. The situation is complicated by the fact that the two units are not well balanced so far as size is concerned — the catalytic unit has a nominal capacity of 4000 bbls., while the Dubbs will run 11,000 very nicely. To take maximum advantage of the benefits that cat cracking brings to refining calls for upping the cat cracking capacity, which accentuates the problem presented by the fact that the refinery has a limited capacity for running crude, and therefore a limited amount of cracking stock.

It is basic that the cat unit should process a feed separated from the cracking stock that formerly went to the Dubbs, and that it should be free of high priced charging stocks such as stove and diesel oil. It follows that if cat cracking is good, a maximum amount of cat cracking charge should be made from the reduced crude. Vacuum flashing of the reduced crude affords a feasible means of getting the desired separation—for the controlled gas oil takeoff from reduced crude permitted by vacuum flashing allows digging as deeply into the vacuum charge as necessary with control of the metals content of the gas oil make.

With the question of means of preparing the feed stock for the cat cracker disposed of, there remained the problem of balancing existing equipment and its usage against crude runs.

Wilshire working with the Universal Oil Products Company under our Service Agreement determined that the best arrangement was to provide feed for the cat cracker by way of a vacuum unit and convert the second coil on the Dubbs to a combination vacuum heater and preheater for crude. The dual service was arranged as the heater was too big for vacuum service and extra crude running capacity appeared desirable. The second coil was then modified so that the radiant section would operate as a reduced crude heater ahead of the vacuum tower and the convection bank would operate in series with the crude heater.

To effect the maximum gasoline make it was considered advisable to provide for cracking the catalytic side cut to ultimate gasoline yield via the thermal cracking unit. To minimize fuel it was necessary to viscosity break the vacuum unit pitch. Thus the charge to the Dubbs unit, now reduced to one coil, would be catalytic cycle stock and vacuum tower bottoms. In evaluating this

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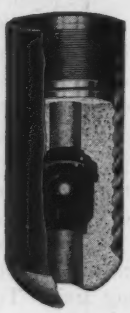

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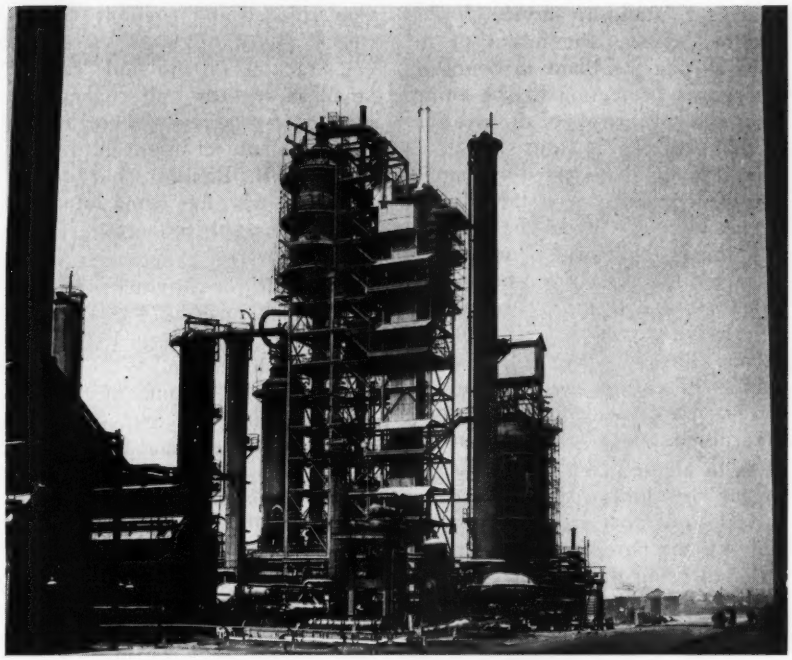
step in the procedure, planning was handicapped a bit by the fact that there is no great amount of data available on cracking this combination of stocks—processing of this nature is done commercially, but usually in such a manner that precise yields cannot be readily obtained. Universal Oil Products had some pilot plant data available which suggested that the blending and cracking of pitch and cycle stocks gave better gasoline yields than might be expected from cracking the stocks singly. The results that have been obtained at Wilshire suggest that the above is true, providing sufficient thermal cracking severity can be applied to the stocks. In this respect, Wilshire's unusually good heavy oil heater serves very well.

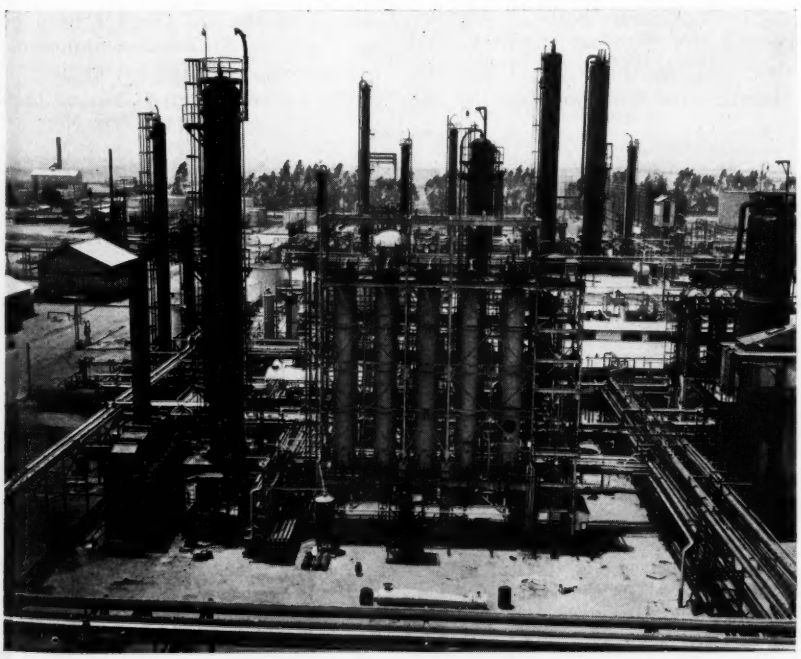
In order to simplify the operations as much as possible, the gas recovery facilities for both units were combined. The arrangement is such that the gas streams from the two units are processed through a deethanizer-absorber providing a separation of the ethane and lighter and the hydrogen sulfide from the heavier gases, while recovering 80% of the propane-propylene fraction, which Wilshire subsequently converts to salable material. The "off"-gas from the deethanizer contains all the hydrogen sulfide produced in the combined operations making it possible for Wilshire to process one stream while making a sulfur free fuel gas as urged by the Los Angeles County Air Pollution Board.



South view of cat cracker structure. Some of the gas concentration unit towers loom up in front of structure. To the left are the crude and reformer furnaces with common stack.

Addition of catalytic cracking to any refining operation brings about a marked increase in B-B make. From this stock is made either alkylate or polymer. The former is an important component of aviation gasoline; the latter is a better blending stock for motor fuel than is catalytic gasoline. In the Wilshire project adopted to permit the refinery to make better motor gasoline, the polymer's usage in motor gasoline is important. Recognizing this, Wilshire converted their old style low pressure type poly plant to a high pressure type of greater capacity by utilizing one of the spare high pressure vessels from the isomerization unit. Though this plant was finished well before the new facilities were placed in operation, it has never operated. Shortly after Korea, Wilshire made arrangements to transport the B-B which first the Dubbs, and now the combined units make, to a producer of alkylate so that this stock (B-B) which is in short supply can be converted into aviation gasoline at no little loss in gasoline quality at Wilshire.

By way of procedure followed in this revamp, Wilshire first revamped the catalytic cracking unit. The plant had been standing idle for five years. It had been shut down and on DPC order had been condi-



East view of poly plant with treating area directly behind and rerun unit to the right. The alkylation plant towers loom up in the background behind which can be seen storage tanks of the west tank farm.

tioned for "stand-by service" for six months. It was the intent of the DPC to put the plant in condition as regards protection of the equipment against inroads of the weather, so that six months from shut down date it could be started up again. Many such plants were started within this interval. It can be reported that the procedure used adequately protected the vessels and pumps but failed (in the five year period) as regards instruments and control valves. Those interested in the protection of equipment for stand-by can learn a great deal by discussing the subject with our engineers.

As in all tie-ins it was important to get this job completed with as little loss of operating time as possible on the parent Dubbs unit. In order to bring this about, following the completion of the revamp of the cat cracker, the light oil coil was taken out of service without shutting the Dubbs down to permit modification of the light coil for vacuum service. The Dubbs continued running as a single coil unit after this change. There followed modification of the heater, and the erection of the vacuum column and its tie in to the heater and auxiliaries. With the vacuum unit completed, the Dubbs was shut down for cleanout at which time the gas lines were tied into the combination gas concentration unit.

The changeover of the Dubbs unit from two coil to single coil operation afforded an opportunity to check the results of single coil versus two coil cracking on the same charging stock as regards unit capacity and quality of products. Those interested in this subject might get in touch with F. B. Behrens, our refinery manager, who has some interesting data on the subject.

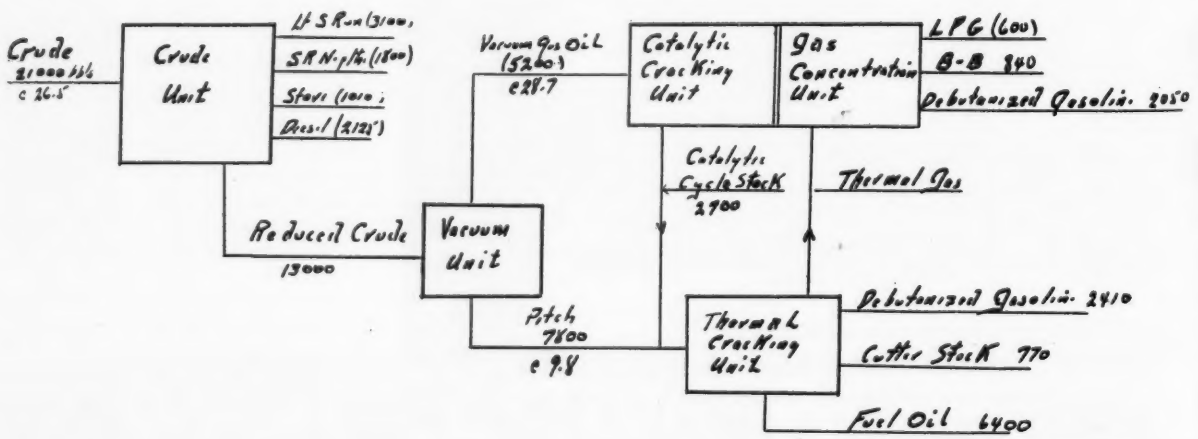
Prior to the changeover on the Dubbs unit, the cat cracker had been started on purchased gas oil, and the Dubbs operated on its usual reduced crude charge. With the completion of the vacuum unit, the cat cracker charge was switched to vacuum gas oil make and the charge to the Dubbs was switched from reduced crude which now became the vacuum unit charge, to a blend of cycle stock and vacuum unit bottoms. The switches were made without incident as was the change from two coil to single coil thermal cracking. Some difficulty was encountered in effecting the switch from the purchased gas oil to vacuum gas oil make, in that the vacuum gas oil was heavier than the purchased gas oil make and its carbon make heavier. This difficulty was resolved by modification of the unit's operating conditions, and though not forgotten, is no longer a matter of concern.

So far as the tie-ins were concerned, the Wilshire engineers and their collaborators—the Petroleum Maintenance Company, handled the matter so that the down time on the Dubbs was normal.

The unit's tie ins and processing scheme employed in the combination are shown on the flow chart. At 21,000 barrels per day of 26.5 gravity crude, the rates to the various units and make are shown.

Because of the meager data on the yield of gasoline that can be made from pitch and cat cycle stock as a combined thermal cracking charge, there was considerable interest in the amount of thermal gasoline that would be made by the project—as well as considerable interest in the overall results. Because of limitations in the capacity of the catalytic cracking unit, the cat cracker charge is limited to 40% of the reduced crude. Given more catalytic cracking capacity, this charge could well be brought up to 60%. Were this possible the differential in favor of the combined operation over the old as regards more gasoline and less fuel oil would be improved still further. Some additional advantage might result from stepping the conversion level on the cat cracker beyond the current 48% level. As the Wilshire operation is setup it is of decided advantage to have a good thermal unit to back up the catalytic cracker. Whether the charge to the cat cracker need be cut back, say for reasons of metallic contamination of the cat charge, or if the conversion need be cut back

Process Flow of Revamped Wilshire Operation



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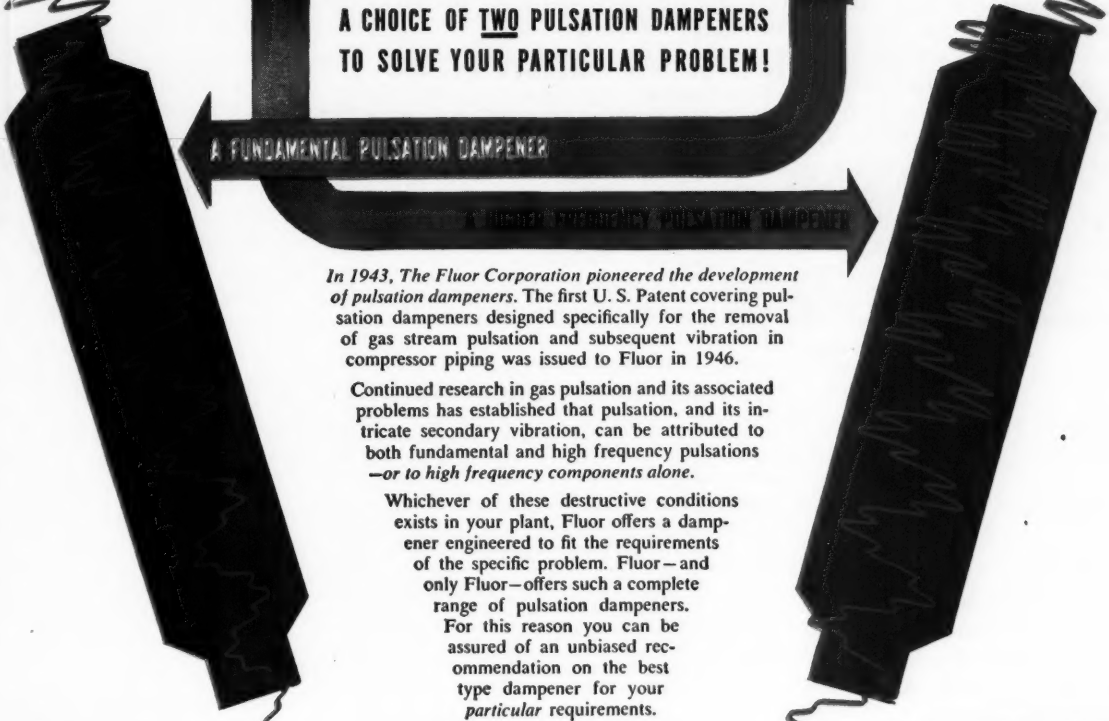

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"Mechanical Vibration of Piping Induced by Gas-Pressure Pulsations"
By R. C. Baird, *Research Engineer, and* I. C. Bechtold, *Director of Research and Development*

Abstract: *The generation and nature of gas-pressure pulses from reciprocating compressor action are described, together with the propagation of such pulses through pipe lines. The means whereby pulse energy is converted to mechanical vibration is discussed by the aid of analogous mechanical, acoustical, and electrical oscillatory systems. The economic importance of minimizing vibration in compressor and compressor-dependent installations is indicated.*

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for various reasons yielding a greater amount of cycle stock, the thermal unit can easily pick up the slack.

In spite of the low ratio of catalytic to thermal cracking due to limited capacity in the cat unit, there are appreciable differences in the current operations and those existent prior to the addition of the catalytic cracking unit. These differences would be accentuated and favorably were it possible to crack more feed catalytically. At the rates indicated by the flow chart the yields of products that result are compared below with the results obtained from the old operation.

	New Operation	Old Operation (Thermal cracking alone)
Total gasoline @ 6# RVP	44.6	39.4
Stove oil	4.8	4.8
Diesel	10.1	10.1
B-B	4:0	3.2
Fuel Oil @ 300 seconds	30.5	36.4
Cutter stock (thermal) @ 30.5 grav	3.7	5.5

Here then is the answer to the question as to the differential in gasoline and fuel oil yields that result from the operation of a catalytic cracking unit in conjunction with a thermal unit as opposed to yields from straight thermal cracking. The differential in gasoline yield in favor of the combined operation would be reduced somewhat if the cutter stock (thermal sidecut) from the two operations were the same. Adjusting the gasoline make for the same cutter stock make would show the following:

	New Operation	Old Operation
Total Gasoline	44.6	40.5

Similarly the fuel oil make for the old operation would compare more favorably if the same adjustment were made in the cutter stock make.

	New Operation	Old Operation
Total fuel oil	31.0	36.4

Thus the combination of catalytic cracking and thermal cracking as practised at Wilshire serves to bring about an increase of 10% more gasoline and a decrease of 15% in heavy fuel oil.

A third objective in the installation of the cat unit was the production of better gasoline. The refinery blend of gasoline was and is made up of the following components:

	Current	Pre-cat cracker
Straight run	53%	60
Thermal gasoline	25%	40
Catalytic gasoline	22%	—

The octane number of the refinery blend is currently 3 numbers higher than before. This can be translated into permitting the refinery to produce a higher percentage of premium grade fuel, or into a saving in TEL costs. On a pre-Korea basis and taking premium and house brand gasolines at 92 and 84, and a normal TEL supply, the refinery can now make a blend of 40% premium gasoline without excessive undercutting, whereas before the output was limited to a maximum of 10% premium fuel. Expressed on a TEL saving basis, the extra octane is worth 4½ cents per barrel of crude run. In addition to the octane advantage, the refinery gasoline blend is lower in sulfur by 15% and is considerably more stable for the same amount of treating.

Coincident with the initial operations of this combination or shortly before, the PAD announcement as regards a shortage of TEL was made public. There was built at Wilshire in 1938—before the usage of TEL became widespread—a reforming unit. This unit was operated during the war for the production of B-B for alkylation feed stock in conjunction with the other DPC facilities. With the coming of "V-J" day, the reformer like the catalytic cracker was shut down.

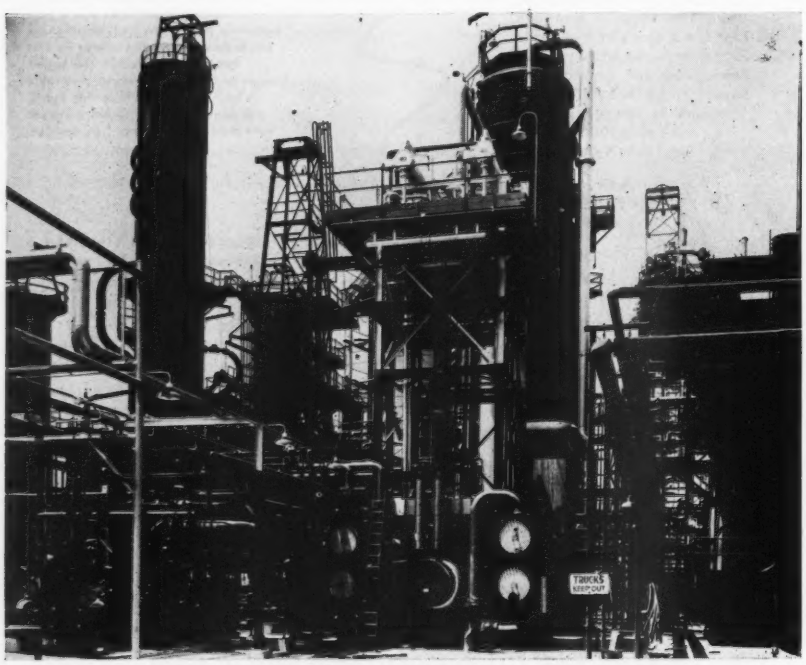
In the face of the "lead" shortage, and so Wilshire might retain its gasoline quality, the reforming heater was tied into the Dubbs unit to take advantage of its ability to up grade heavy straight run gasoline. As the cracking unit now operates it is virtually a two coil unit processing the widest possible range of feed stocks—from pitch through gasoline.

As a result of this addition it is possible to carry on with the production of gasoline of the highest quality without excessive usage of a commodity in short supply because of its usage in the production of aviation and combat grade gasoline.

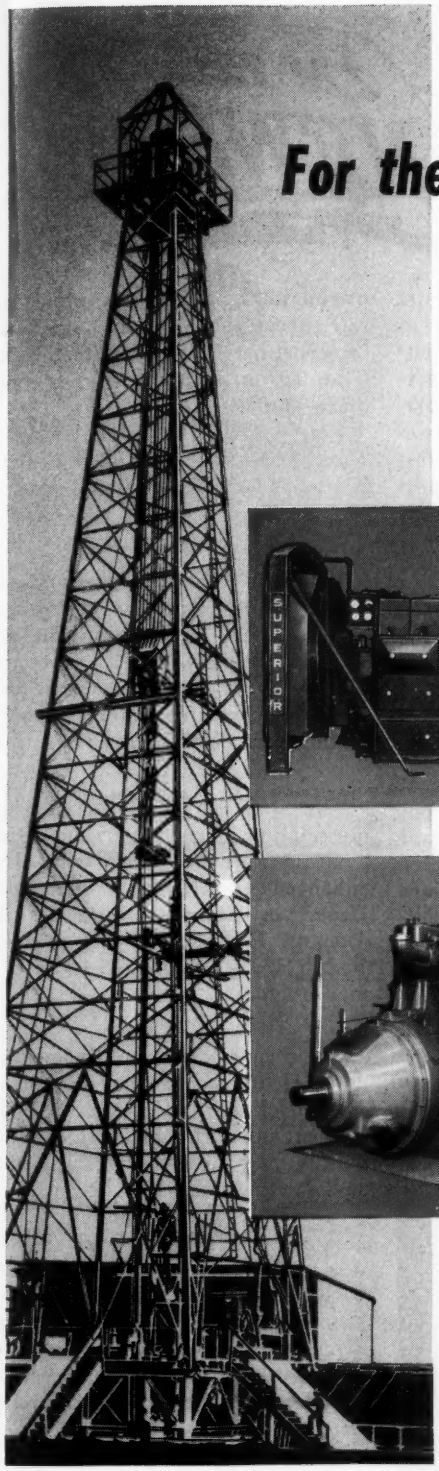
As the operations have progressed it has become evident that two coil cracking has decided advantage in cracking stocks which include catalytic cycle stock. Consequently the reformer coil, formerly used in handling naphthas as direct feeds, is now being tied into the cracker to serve as a second coil for recycle cracking with room reserved in it for direct feed of straight run naphtha for reforming.

In summary, Wilshire has in the short period of one year, completely

(Continued on Page 18)



South view of completed vacuum distillation unit. The tall tower to the left is the Dubbs main fractioning column. To the right is half of Dubbs heavy oil furnace above which can be seen the very top of the cat cracker structure.



For the tough drilling jobs . . .

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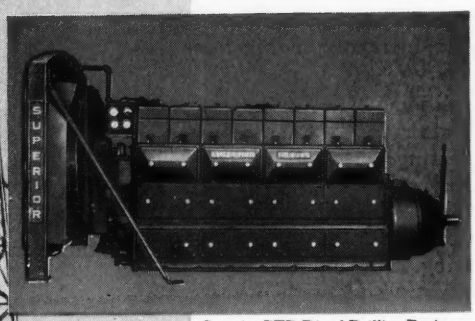
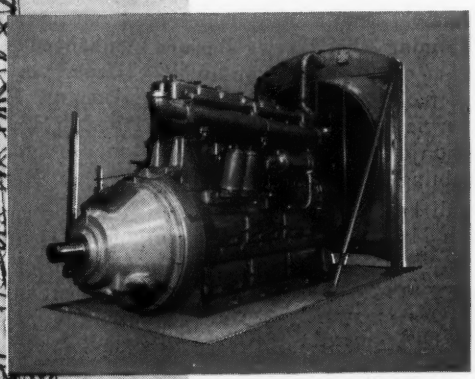


Superior PTD Diesel Drilling Engine



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Personalities IN THE NEWS

Atkinson and Hochuli Step Up at G. P.

Thomas A. Atkinson has been named assistant manager of Rocky Mountain Operations for the General Petroleum Corporation's Production Department, according to a company announcement.

Thomas A. Atkinson

In his new post Atkinson will be located in Casper, Wyo., where General Petroleum production operations are headed by A. F. Barrett.

Edward S. Hochuli will replace Atkinson in the latter's most recent assignment with General Petroleum. Hochuli becomes Manager of the corporation's Industrial Relations Department. He will be located in Los Angeles.

Atkinson, a 41-year old native of Ventura County, Calif., first worked for General Petroleum as a high school boy in 1926. He held intermittent jobs with the company while attending the University of California from which he received his degree in mechanical engineering in 1933.

He went to work in the Kern oil fields as a well puller, helper and gauger. In 1938 he was assigned to engineering work and became assistant to the Southern Division Superintendent of the Production Department in 1944. Since 1947 Atkinson has been in Industrial Relations work. He is a member of the American Petroleum Institute and the American Institute of Mechanical Engineers.

Hochuli joined General Petroleum in 1946 after 5 years in the U. S. Navy, during which time he rose from the rank of ensign to cammander. Also a graduate of the University of California in mechanical engineering, Hochuli prefaced his university training with 4 years at sea as a marine engineer. He spent 2 years as an engineering consultant with a naval engineering concern before joining the Navy. Besides sea duty as commander of an underwater demolition team, Hochuli's Navy service included educational supervision of merchant marine officer training.

Hochuli has been in General Petroleum's Marketing Department in marine sales, industrial relations and sales training work. His most recent post has been Manager of Sales Training on the department's home office staff.

Edward S. Hochuli

Born in St. Louis, Mo., in 1914, Hochuli is a member of Phi Beta Kappa and the American Society of Naval Architects.

Dick Rheem, oil producer and one of California's foremost yachtsmen, is understood considering the rerigging of his 96-foot schooner, Morning Star. Dick has been particularly successful in developing oil in the Race Track Hills field.

The staff of the department of information of the American Petroleum Institute in New York has been enhanced by Harry William McHose, whose duties will be editorial director. McHose takes the place of Joseph H. Mader, who resigned a month ago.

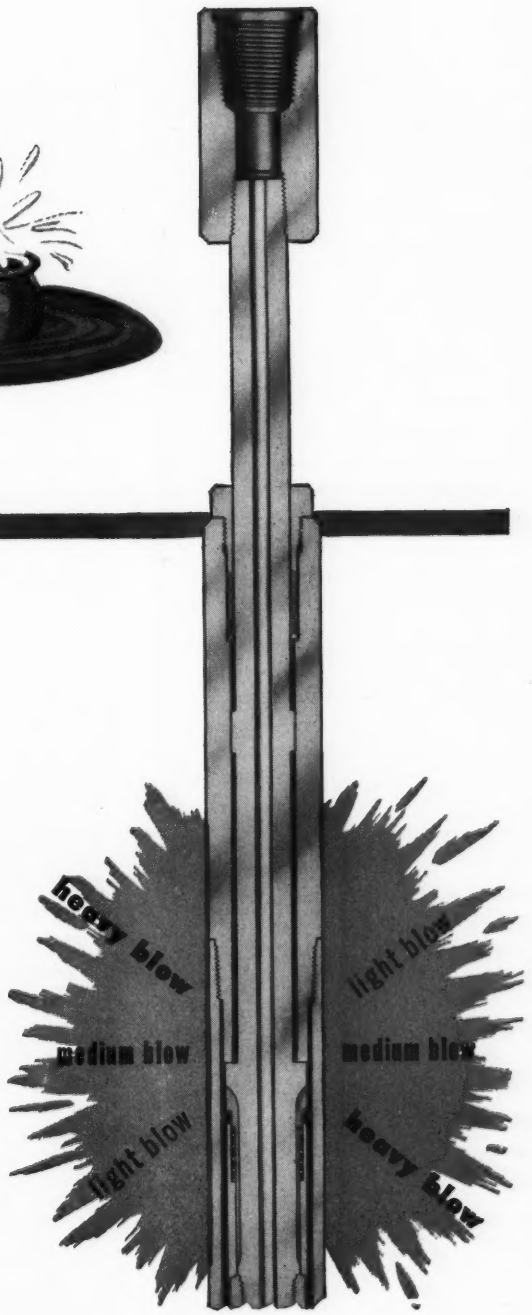
The recent death of William Randolph Hearst was mourned by many oilmen. Edwin W. Pauley, independent operator, who is also a regent of the University of California, said:

"Not only will the passing of Mr. Hearst be felt throughout the nation where his journalistic activities have had a great influence, but his loss will be keenly felt by the University of California where his benefactions and gifts will be forever remembered. A great American has left us."

Henry F. Wertalla, 68, Torrance oil well owner and one-time manager of the Griffith Park Merry-Go-Round died at his Torrance residence. Born in St. Joseph, Mo., Wertalla came to California in 1905 and in 1926 acquired the first of his three oil wells in the Torrance field.

The right jar for the job at hand

Jarring Jerry



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Kirk Advances At International Cementer

R. B. "Bob" Kirk of International Cementers, Inc. was recently appointed administrative assistant. His responsibilities now cover export supervision and advertising and sales supervision.

For the export field, International Cementers manufacture oil well cementing equipment, including pumping units, bulk cement storage and bulk cement transporting equipment.

Sam Mullen, Well Known Oil Figure in Fillmore, To Retire

After nearly 32 years with Merchants Petroleum Company, 25 years as general manager, Sam Mullen of Fillmore is retiring.

Mullen, who began company operations in Sespe Canyon in 1930 and moved his residence to Fillmore in 1941, said his resignation from the company is effective Oct. 31 but that he will retire immediately.

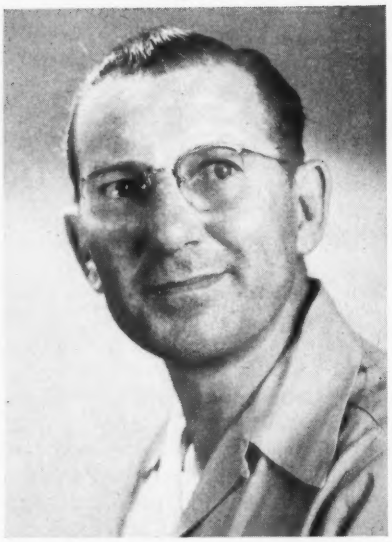
"I knew when I took it that the job wasn't steady," Mullen laughed as he announced his plans to retire.

Mullen says his plans for the future call for "concentrated loafing."

H. D. L'Heureux, manager of building utilities for General Petroleum, has rounded out 40 years with the company. He was tendered congratulations by Geepee directors.

Ben Woodcock, veteran member of the California oil industry, in recent months has been blocking up available leases in many interesting areas. He is contemplating a trip to other states in the near future for a look at oil prospects elsewhere than in California.

John McClelland Abrams is writing Los Angeles friends from Montana, where, in addition to looking over likely oil territory, he has been inspecting such famous fishing spots as Judith River, Wolf Creek, West Yellowstone and others. John's father was long identified and prominent in oil development in Pennsylvania. John first saw the light of day in Butler.



Lynn Smith, formerly field service engineer for H. C. Smith Oil Tool Co. in Cuyama, has been transferred to the Los Angeles Basin area, it was announced by Herschel C. Smith, vice president. Lynn Smith has been with the company for the past 5 years and will now make his headquarters at the main office and plant in Compton, California.

Harry P. Letton, Jr., has joined Southern California Gas Company at Los Angeles as assistant general counsel. He will take the place of Milford Springer, who resigned in January of this year to become secretary and counsel for Southern Counties Gas Company.

Carl Kadau, who for the past 30 years or so has divided his time between oil and the newspaper business, announces he is back in the petroleum industry for keeps. He is making headquarters in Hollywood.

Joe Parmenter has joined D. D. Feldman Oil & Gas Company at 921 Westwood boulevard, Los Angeles. He formerly was with Wilshire Oil Company and earlier with Elmer Houchin & Associates at Bakersfield.

Earle S. Porter, 62, vice president in charge of production of the Amerada Petroleum Corporation, died in a Tulsa hospital. He had been associated with Amerada since 1921, rising from a research chemist to the job of vice president.

Veteran Ad-Men Form New Agency

Herb Hill and Jim Christopher, who have earned a top place in advertising agency circles during the past ten years, have teamed up to form their own agency under the name of Hill & Christopher, Advertising. Offices are located opposite MacArthur Park at 2024 West Sixth Street, Los Angeles.

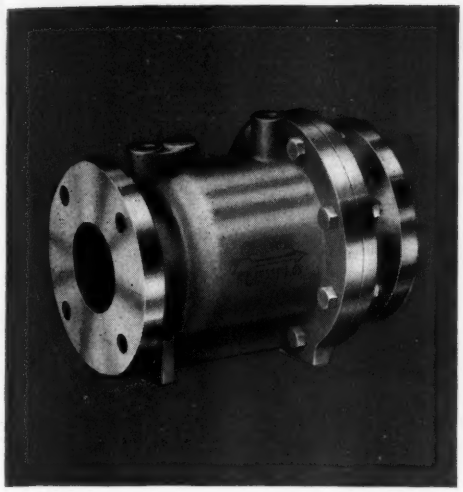
Hill brings the Halliburton Oil Well Cementing Company account to the agency and will serve as senior account executive and director of advertising design. Christopher, who operated his own agency for the past two years, has 15 active accounts covering almost every classification and will serve as senior account executive, copy chief, and agency manager.

Stanley & Stolz, widely known consulting engineers and petroleum geologists, announces that Charles R. Dodson had joined the partnership which is in its 20th year. Dodson is professor of petroleum engineering at the University of Southern California. His activities in this field will not be interrupted by his association with Stanley & Stolz.

Warren Smith of the Doheny interests in Beverly Hills has returned to his desk following a tour of oil areas in Texas and other Mid-Continent points.

David H. Conklin, once head of Du Pont's Los Angeles branch, has been appointed assistant director of sales for the company's petroleum chemical division at Wilmington, Del., with direct responsibility for district sales offices. Joseph L. Stecher will continue as assistant director of sales of the division in direct charge of products and service.

Former President Herbert Hoover has returned to his residence in Palo Alto after a visit in San Marino during which he inspected the new bombproof wing of the Huntington Library. A trustee of the library board, he was in San Marino for a special meeting. Hoover also visited his son, Herbert Hoover, Jr., an official of Union Oil Company.



Far simpler operation and maintenance with versatile Flexflo Valves

FLEXFLO Valves are basically diaphragm-operated, using an expansible tube as both diaphragm and valve. With only four simple parts including but one non-metallic moving part, Flexflos assure long, trouble-free service with minimum attention. Field replacement of the simple tube-core assembly affords new valve performance in a matter of minutes. Depending upon the operating system used, positive-acting Flexflos give highly efficient service as:

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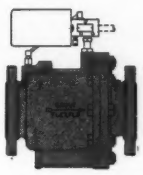
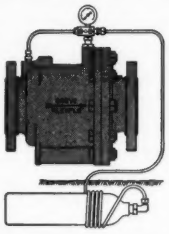
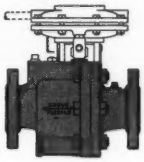
PRESSURE RELIEVERS
CONSTANT FLOW VALVES
SEPARATOR OIL VALVES
REMOTE CONTROL VALVES
AUTOMATIC SHUT-OFF VALVES
. . . and many other applications.



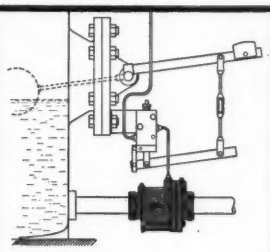
Model 80-41F. Solenoid-operated Flexflo for on-off service.



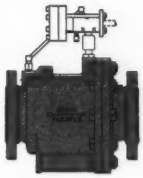
Model 888. Flexflo Dome Pressure Loaded Reliever for back pressure or relief service.



Model 898. High pressure Separator Oil Dump Valve for operation from level pilot.

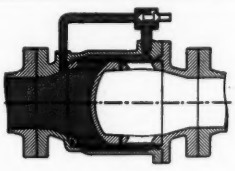


Model 80-899. Separator Oil Dump Valve for operation from float lever.

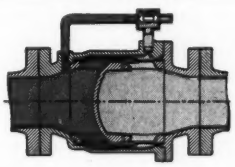


Model 80-42F. Pressure-operated Flexflo for on-off service.

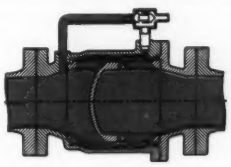
flexflo lets pressure do the work:



CLOSED



THROTTLING



OPEN

1 The only moving part in the Flexflo Valve is a tough Buna N tube stretched over a cylindrical slotted metal core. When closed, line pressure from within, tending to force tube off core, is opposed by equal jacket pressure. Tension of the tube itself forms a positive, bubble-tight seal. The tube conforms to uneven surfaces and is hence unaffected by foreign matter or erosive wear.

2 As jacket pressure is reduced, line pressure begins to roll the tube off the core, opening the valve. Throttling is smooth and even. The Flexflo reacts instantly to the slightest pressure variations, compensating automatically for surge or shock impulses. Stability at all flow positions is accurately maintained. Fluttering and chattering are reduced to a minimum.

3 When all jacket pressure is removed, the tube is forced completely off the core and the valve assumes its wide open position. Full flow capacity with minimum pressure drop is assured. As Flexflo employs no hinge-pins, guides or other metallic moving parts, no troublesome problems of corrosion or wear are encountered. It cannot stick, wedge or slam.

GROVE

Grove Flexflo Valves and Regulators are adaptable to air, gas, oil, water and other fluids at temperatures to 150° F. Available in iron or steel, sizes 1" to 12", for working pressures up to 1500 psi. Wire or write for full details.

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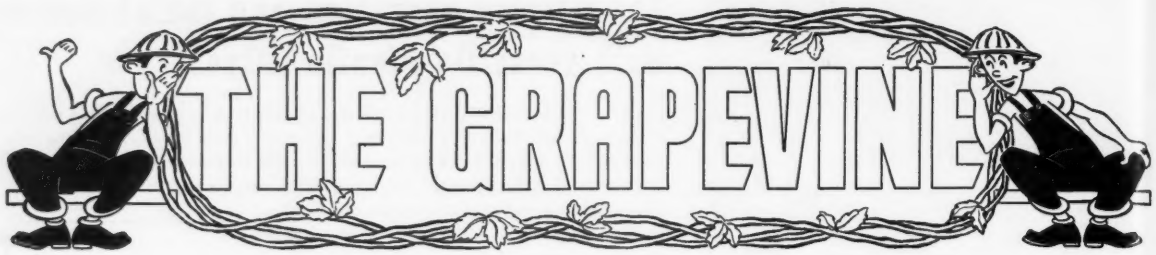

In the Wilshire Club News of a very recent date we note that Jim MacDonald, well known Nineteener and advocator of chain belting under any and all circumstances, made a hole-in-one on the seventh green, much to the surprise of Paul Huggins and George Ratcliffe who were stunned witnesses of this amazing performance. None of them, however, was nearly so surprised as Jim himself, although for some time he had been conscious of a gradual improvement in his game and is quite ready to admit that he may have reached the perfection absolute for which all golfers strive. In any case, we had rather a time trying to dissuade him from giving away all his clubs except the driver—that's how sure he was that the hole-in-one was no accident.

We had the pleasure of meeting and consorting with another consequential Chain Belter not long ago in the person of John Moss, assistant to the vice president in charge of field forces, and a very pleasant individual indeed. John hails from the beer soaked bailiwick of Milwaukee and has been with Chain Belt Company for about seven years. He was chairman at the last annual convention of the Comptrollers of America in May and did himself proud. We have observed that he fits into an impromptu quartet as neatly as a diamond in a Tiffany setting and has other qualifications that would serve him well at a convention. While he was here, his local friends arranged a deep sea fishing trip for him, and like ourself he still wonders why fishermen insist on sneaking out at three in the morning as if they were bent on a commando raid. John thoroughly enjoyed his first cruise on the blue Pacific and now holds the doubtful honor of having lost the biggest fish that was ever lost out thisaway. While he was trying to land the thing he had a brief glimpse of it, after which he was mighty glad it got away because he was quite sure it would have swamped the boat—and John can't swim.

Sam Kelly, the PPP liasion officer in Bakersfield, is busier than a mosquito with two stings making arrangements for the September 15 barbecue at Kern County Golf Park. This is expected to be one of the biggest and best whangaroos of all time. It is to be preceded by a dedication ceremony at Fellows where a monument and plaque, memorializing a famed early gusher will be unveiled. This well, Chanslor Canfield Midway Oil Company's No. 2-6, is in the Midway Field and was located by F. C. Ripley Sr. back in 1909 when he was assistant manager of lands for Santa Fe Railway Coast Lines. It started one of the biggest booms in California oil history and in the dedication formalities which will be directed by L. L. "Red" Aubert, prexy of PPP and extra-curricularly of Bankline and Norwalk Oil Companies, will honor both the well and the man who selected the site—F. C. Ripley, Sr.

Incidentally, we recently backed out of a Pioneer's board meeting and went up with Paul Andrews to his fantoosh office at Signal Oil & Gas Company to discuss briefly the historical program of which Paul is the presiding genius. We had hardly cut loose with our usual succession of inane suggestions when we were already drier than a W.C.T.U. convention and were gulping for air or something in a most distressful fashion. Then out of a rose colored sky there approached a comely lady. Her name was Esther Roberts and she was pushing, shades of Shell Oil Company, Incorporated, a tea wagon. Seeing at once that we were in an advanced state of desiccation, this discerning young gal threw the clutch into high gear, dashed in at top speed, pulled to a grinding stop, and in no time at all we were sipping eagerly at the life giving tannic acid. But, boy, it was a close call!

Speaking of Signal Oil & Gas Company reminds us that a few days ago we were sitting in a most important game of dominoes at the Petroleum Club when who should come up behind and disarrange the eight long hairs that we brush over the top of our scalp to cover the uncultivated patch in the rear, but Walt Greenfield. We barked angrily at him but it was too late—the painstaking work of a long morning had been shot in a few seconds and our secret sin glinted embarrassingly in its unaccustomed exposure. We have decided that by way of punishment for this impromptu unveiling our lilting tenor shall no longer be heard in Greenfield inspired quartets.

Still speaking of Signal Oil & Gas Company and its people, we learn via our European correspondent, Angus McBagpipes, that the Russell Greens and the Al Gregersens consorted very enjoyably in Copenhagen a few weeks ago. Our correspondent omitted to mention how much snuff was chewed on this auspicious occasion, but it appears that the Greens were on a North Cape tour and stopped by for a bit of smorgasbord or the Danish equivalent of it. Anyway, they certainly let their host and hostess have all the scandal about the City of the Angels and particularly about the petrolic angels who flutter around the Basin area. Al Gregersen has now been in charge of Danish-American Exploration Company operations overseas for six years. He is due to return to the United States about September 1 and will thereafter be attached to the foreign pro-

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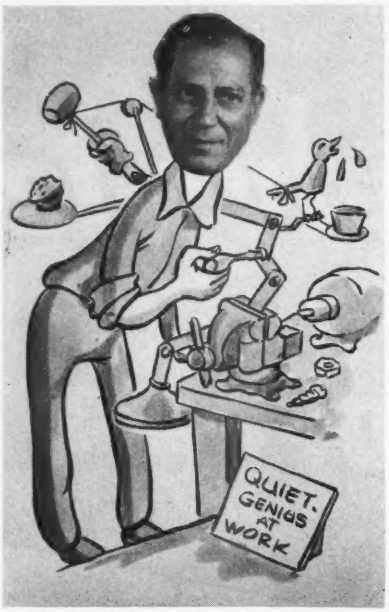
24 HOUR SERVICE

duction division of Gulf Oil Company as Government Relations Advisor, with headquarters in New York. He is hoping, however, to spend at least part of a two months' vacation in California visiting his many friends out here before settling down permanently in New York. We will sure be looking forward to saying hello to Al when he returns to his old haunts.

Charlie Dodson, head of the petroleum engineering department of U.S.C. has become a third partner in the firm of Stanley & Stolz, consulting geologists and petroleum engineers, which from now on will be known as Stanley, Stolz & Dodson. He will, however, continue to head U.S.C.'s engineering department. Stanley & Stolz is one of the oldest consulting combinations on the west coast. They are in fact, celebrating their 20th anniversary as this is being written and are receiving congratulations from a host of friends. E. R. "Stan" Stanley and Harry Stolz are widely known throughout the Pacific Coast petroleum industry and are both popular members of the Petroleum Club of Los Angeles. Stan pioneered in the development of oil properties for the City of Long Beach away back when and Harry Stolz has been prominently identified with the Naval Reserve at Elk Hills among other things. Anyway, they are both interesting as well as capable people and we wish them another 20 years of successful operation with their new partner, Charlie Dodson.

Al Bailey, the tall, rangy Taft Axelsonian, began work with the Company in 1898 but he left to try his luck with the East Side Machine Company in 1906 and never got back to his first love for thirty-five years. In the meantime, however, he adventured high, wide, and handsome around the early California oil fields and he has loads of interesting tales to tell about old time methods and old time people. He remembers his association with all sorts of colorful characters, such as Tom Killet, Bill Cameron, and Billy O'Neill, of the old Salt Lake Company. In fact, he claims that Earl Delaney, the retired Standard Oiler was given his



MAKES A SUPERMAN LOOK LIKE A FUDDY DUDDY

Away back at the turn of the century there was born in the town of Barnesville, Minnesota, to his own intense surprise, a boy by the name of Vernon Zacher. Before he was five years old this lad had shown an amazing facility in the handling of mud and could shape such mud pies as had rarely been seen in the area. In consequence, the city fathers agreed with his own parents that Vernon was destined to become a pumpkins in the mud business. They were dead right, for Zach, as he is now known widely throughout the west coast states, is today mud engineer for Tide Water Associated Oil Company at Ventura where mud is an especially important commodity, and we can say from personal observation and experience that he is one of the best informed men in the oil business on drilling fluids.

Before he became firmly rooted in the Swedish soil of Minnesota, Zach took off into the far west and next thing the historians discovered was that he was roosting in a considerable village out in Montana, known as Bozeman. There he attended University of Montana and by dint of diligent study emerged in the allotted space of time with a large sheepskin designating him now and ever more a mechanical engineer. Loaded with this affidavit as to his undoubted qualification he steered his jalopy in the general direction of Southern California and almost before you could say "millidarcy" he found himself functioning as an oil man.

He became a member of Tide Water Associated's production staff in 1926 and four years later was sent to Ventura to handle the mud problem. Meantime, he has not only done that but he has also played an important part in the definition of currently accepted and approved testing methods. Zach is a good deal more than a definer of tests, however, he is an ingenious sort of chap with that practical twist which the genius all too often lacks. He has developed some very effective devices for expediting tests and making results more uniform—on the same sample, that is—and he is just as much at home on a derrick floor as on a laboratory bench. He has a basement workshop in his home where he gives his mechanical bent full sway and some of the contraptions he turns out during the weekends make Superman look like an old fuddy duddy. On top of all that he is a good joe to which we personally can fervently attest.

---

first oil job by Billy O'Neill. He remembers when he was with the old D & B Pump & Supply Company, loading pumps on the fenders of the North Main streetcars in Los Angeles, transferring them at Temple Street to other cars that went as far as the Bimini Bath House. After that the pumps were loaded on wagons and hauled the rest of the way to the Salt Lake field.

Al was foreman at D & B from 1917 to 1927 (Dan Daniels was then president) and when this institution was bought out by Emsco, he became plant superintendent, which job he held for the next 7 years. He ducked out to the Alford Pump Company for a spell and then returned to Axelson Manufacturing Company of which he has been a stout adherent ever since. Al has two hobbies, one of which is sprouting a beard and going into an Abe Lincoln disguise for the annual Taft Whiskeroo. The other is playing cribbage, sometimes known as mumble peg because when you peg your oponent mumbles. Al claims that he is the cribbage champion of the Hovey Hills and we have never heard anyone in the Hills dispute it. Come to think of it, we have never heard anyone in the Hills, period!

August seventh was the birthday of that grand old gentleman, Albert Enrique Fowks, daddy of Al and Ernie, who has reached the 84th milestone and still has more energy than a barrel of high octane gasoline. He is a native of the Catskills in New York state but early in his life moved to Petroleum Center, Pa., and there suffered his first attack of oil fever. In 1878 he joined his father in Peru and thenceforth not only watched but actively participated in the development of Peruvian oil and other natural resources for a period of some 32 years. For a time he was closely associated in certain Peruvian enterprises with Wallace Hardison and Chester Brown, former Union Oil Company greats and, indeed, came back to the

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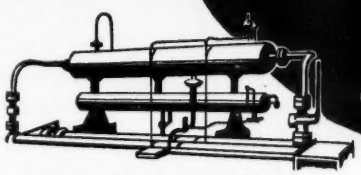

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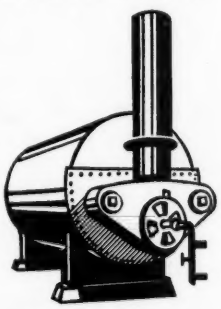

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United States with Chester Brown in 1910. He was assistant director of exploration and production when he retired from Union Oil Company in 1931.

Perhaps because most of his life has been spent outdoors Enrique, as the Peruvians called him, has a wonderful constitution and still enjoys life to the full. He is as mentally alert and physically active as one many years his junior and is a highly interesting conversationalist. We remember reading with real excitement a series of articles he wrote for the old Union Oil Bulletin shortly after he returned to the U. S. For the past 48 years more or less he has kept a diary and has never failed to make a daily entry in all that time. We hope that in good health and spirits he will continue to make daily entries in that diary for a long time to come.

Another recent birthday celebrant of consequence is Carl Totten, Shell Oil Company's public relations representative down thisaway whose natal day fell on August 22 and whose capacity to make one's life miserable with a bag of golf sticks and a small indented sphere has Ben Hogan and George Trembley worried no end. Carl is also a mean performer with the slick pasteboards and gin rummy players with any regard for the content of their pocket books generally give him an extremely wide berth. He is even feared by the less daring domino addicts and it is no wonder, for his accurate selection of counting pieces from the boneyard and the excellence of his pegging are a combination of which the tyro would do well to beware. A rare sportsman in all respects is this Carlos and to him too we wish the most of the best as he barges on into the future in a continuing search for the golden fleece and other more readily negotiable commodities.

On the subject of golf, it is doubtful if there is a man in the petroleum industry who has hit the hole-in-one jackpot oftener than that niblick sharpie, Art Brunner. He had had three aces on Long Beach links up to the last time we communicated with him and being a nomadic individual, goodness knows how many he has made out of state. Art used to be manager of the gas department for Macmillan Petroleum Company, working with Neil Norris, Rufus Fadler, and M. P. Macmillan down in the Long Beach area. Then he handled gas engineering on a contract basis for a number of independent oil companies. Besides being a divot lofter of a high order he is an expert three cushion billiard player and knows his diamonds like a Kimberly mine owner. He was schooled in Coffeyville, Kansas, the town that was picked by the infamous Dalton Brothers which perhaps explains why he is such a sharpshooter.

We hear reports of an interesting tour by a Baker party, headed by R. C. Baker Sr. himself, and including Mr. and Mrs. Bud Fobes, Mr. and Mrs. John Rosenlind, Mr. and Mrs. Charles King, Mr. and Mrs. Ted Hurlbut (pilot), and Miss Adeline Halter. Cruising nonchalantly about the continent in the Baker Company plane, this intrepid little band dropped in on J. W. Jackson at Sterling, Colo., then sashayed over to Casper, Wyo., for a visit with Jim Meador, and followed this with a flight into Worland, Wyo., to see Burgess Howard. Thence they shipped to Cutbank, Mont., where they deliberated with their licensees, Montana Oil Well Cementers. After that they hied over the hump into Calgary and Edmonton, Alberta, Canada, there visiting with their representatives in Dowell, Inc., W. Roy Graves and Kenneth Hutchinson, respectively.

Tiring of the humdrum of city life they then scooted to the really far north and took a leisurely look at the work that the Arctic Contractors, under the supervision of Gene Davis, are doing for the Navy at Point Barrow. Turning homeward, it seemed as if they might make Huntington Park without further delay but the recent boom in Williston, N. D. excited Baker Senior and so they took a gander at that before backing up to Casper and finally streaking home through Salt Lake City. R. C. came out of this extensive jaunt fresher than the proverbial daisy and has all arrangements for a complete tour of the Mid-Continent, starting in two weeks time. Well, bon voyage, say we.

Have you seen Ella Lately?

Ella who?—EleVator, of course, and the chances are you will see her riding around with Ed. Plaugher on the way to some lease in the Valley. ✶ How that fellow does get around peddling Web Wilson Elevators, Tongs, Hooks and Links—not to mention the new Tubing Spider which is going over in a big way. ✶ Always has "Tiger Tooth" Tong Dies in his car too, just in case somebody might be needing 'em. ✶ It is *not* true, however, that he lugs a Web Wilson Connector Hook into cocktail lounges to "hoist a quick one"—his right arm still bends at the elbow. ✶ P.S. A phone call to Bakersfield 2-2376 will reach him day or night.

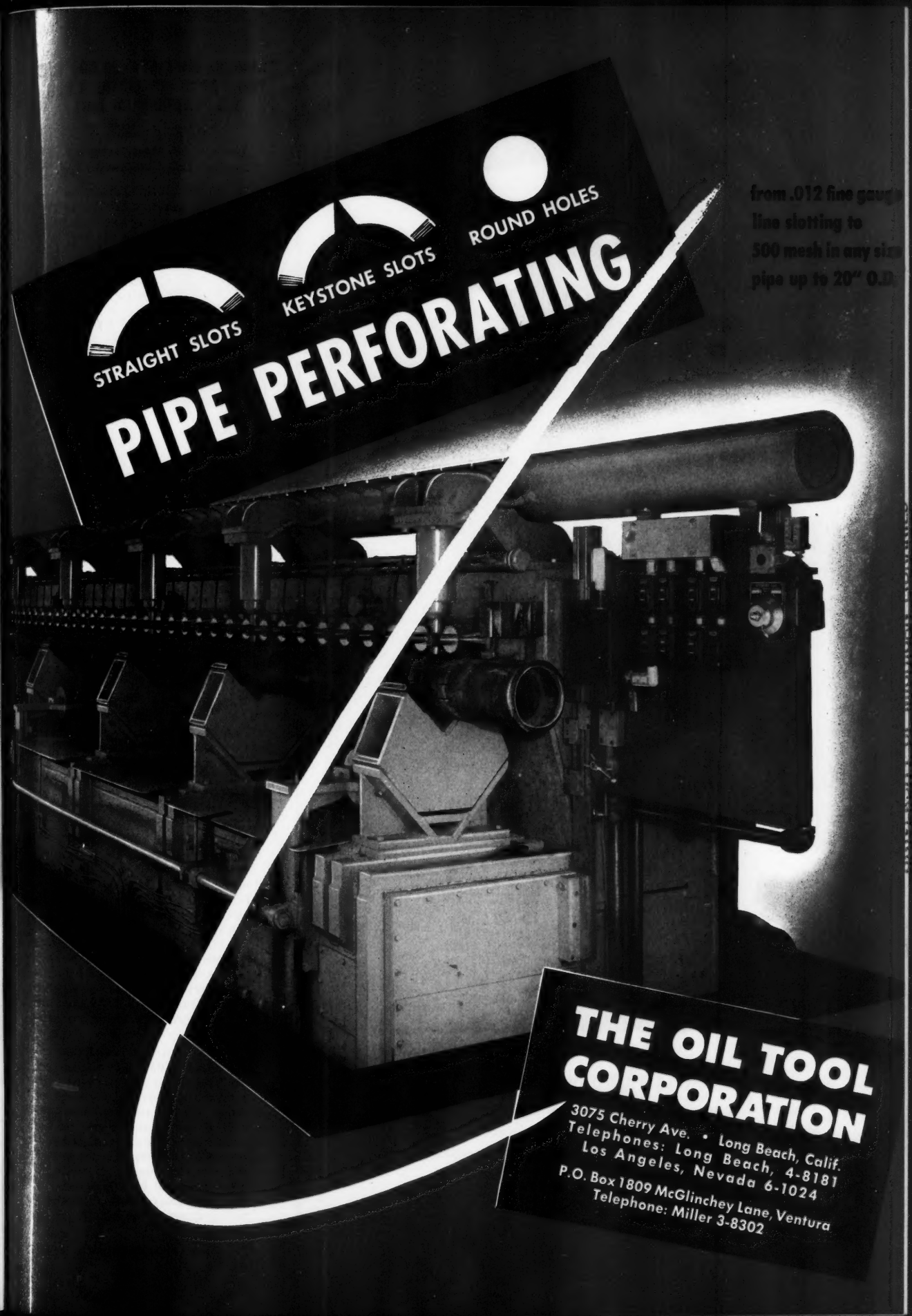
Wilshire Revamps Refinery

(Continued from Page 8)

rehabilitated and modernized a 5000 barrel catalytic cracking unit, converted their two coil Dubbs unit to a single coil unit and back to two coil through the use of an existing reforming heater, built a vacuum unit by utilizing one of the furnaces on their thermal cracking plant and by adding a vacuum tower, brought about an appreciable increase in product quality and in the "gross value" of the products made from the crude run, taken steps to reduce their usage of "lead" by reforming, and have accomplished this while maintaining normal on stream efficiency of their combination crude and thermal cracking unit.

Teacher: "Can anyone give me a sentence using the word 'diadem'?"

Pupil: "People who drive carelessly diadem sight quicker than those who stop, look and listen."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CANADIAN OIL'S NEW 20,000 B/D REFINERY IS INSTALLING 4,000 B/D PLATFORMING UNIT

By E. A. Smith
Manager of Manufacturing
Canadian Oil Companies, Ltd.

Early in 1952 Canadian Oil Refineries, Ltd., a wholly-owned subsidiary of Canadian Oil Companies, Ltd., will have completed and placed into operation at Froomfield, Ontario, just four miles south of Sarnia, a completely new $18,000,000 refinery. This modern plant will contain processing facilities which represent the finest in advanced petroleum refining techniques.

E. A. Smith

The major processing elements which are being erected in the new refinery are:

(a) 20,000 barrel per day atmospheric and vacuum distillation unit, with vis-breaking;

(b) 10,000 barrel per day orthoflow catalytic cracking unit, gas concentration system, and UOP catalytic polymerization unit;

(c) 4,000 barrel per day UOP Platforming Unit.

Plant storage will be upwards of 2,000,000 barrels.

The decision which prompted construction of the Froomfield refinery was influenced in major part by the following factors:

1. The growing inadequacy of our 4,000 b/d refinery at Petrolia, which has been in continuous operation since its origin in 1900 and is nearing obsolescence, to meet the increasing requirements for more and higher quality petroleum products.
2. The complexity of the crude oil supply situation. During the early years, Petrolia refinery had been dependent on the Petrolia-Oil Springs field which rapidly diminished in production. Mostly we have been dependent on the U.S. for supplies. It is interesting to note that although the once rich Petrolia-Oil Springs fields were discovered almost simultaneously with discovery of the Pennsylvania field in 1859, they are still in active, although meagre, production.
3. The location in Sarnia and close coordination of the Froomfield project with that of the great Polymer Corporation, a Canadian Government company, which requires large quantities of refinery ingredients for use in the manufacture of synthetic rubber. Polymer is considered to be one of the world's finest completely integrated plants. It is also the only synthetic rubber plant built and operating in the British Empire.

4. Access to an adequate and assured supply of Canadian crude oil from the Alberta fields. Redwater crude for the new Froomfield refinery will be delivered by the Interprovincial Pipe Line from Edmonton to Superior, Wis. Tankers will then transport the crude to refinery storage.

Our Froomfield plant will tie in operations with that of the Polymer Corporation and another large chemical organization as follows: Canadian Oil will supply them with a butylene stream and a tail gas stream of C_2 and lighter, from which they will extract ethylene and ethane and crack the ethane into ethylene. An LPG stream of propane will be supplied, which also will be cracked into ethylene. The propylene incident to the pyrolysis of ethane and propane will be returned to Froomfield for polymerization, along with our own propylene stream. This will thereby make up, in large measure, the deficit of poly gasoline occasioned by the release of butylenes to Polymer.

The selection of the UOP Platforming process for Froomfield was made after our engineers had completed studies of the various reforming processes now in operation and some of which were still in the pilot plant stage. We supplemented our studies on Platforming by journeying to Muskegon, Michigan, to witness at first-hand the commercial operation and performance of the Old Dutch Refining Company Platformer, the first industrial or full-scale unit built.

We were convinced, after carefully weighing all of the factors involved, that for our particular operation Platforming was indeed the superior reforming process.

The guaranteed charging capacity of the Platformer is 3800 b/sd. Engineering and construction of the unit is under the direction of Procon Incorporated.

At the present time provisions are being made to charge a stream of 250°-400° F. straight run naphtha to the Platformer. We estimate that 60% of the Platformate which is realized from this operation will be available, for defense purposes, as aviation gasoline base stock. Consideration also is being given to providing a narrow cut of light straight run as charge to the Platformer for the production of benzene, which is in short supply. This will particularly be the practice when the Government requires portions of the 250°-400° F. naphtha for aviation jet fuel.

In designing the refinery, full cognizance was given to Canada's great defense effort, in which our operations at Froomfield are destined to play a prominent part.

Canadian Oil Companies, Ltd. is, and Canadian Oil Refineries will be, completely owned, staffed and operated by Canadian personnel. Refinery products are marketed through an organizational distribution set-up that extends from the Atlantic to the Rockies. The products are marketed under the trade name of "White Rose." The home office of Canadian Oil is located at 204 Richmond Street, West, Toronto, Ontario.

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Field Development

Los Angeles Basin

La Habra Try Digs

At La Habra Heights, R. E Bering, long time member of the California oil fraternity, is making steady progress with the drill at a depth of 2270 ft. with his York No. 1 on Sec. 30-2s-10w. In the North Whittier Heights area, Sam Kubetz has suspended drilling at 1510 ft. in Kline No. 1 on Sec. 11-2s-11w. Los Nietos Company's Whittier Crude No. 2 on Sec. 22-2s-11w in the Whittier area is coring and drilling ahead at 3800 ft.

Colton Test Drills Deeper

Near the town of Colton in San Bernardino County, John W. Brashears is drilling at 2530 ft. with Dana No. 1 on Sec. 26-1s-5w. Richard F. Taylor & Associates is understood planning to resume operations with its Taylor-Whittaker No. 1 wildcat on Sec. 31-2s-7w at Chino. The well at present is down 1825 ft.

Prado Dam Test Grinds

Cherrydale Oil Company's Riverside County wildcat well in the Prado Dam area is continuing to drill on down at 1150 ft. The drill site is on Sec. 8-3s-7w near Hellman avenue.

Loma Verde Tests Ground

In the Loma Verde area, which has long intrigued geologists, Trigood Oil Company is drilling ahead below 5650 ft. with its Ayala No. 2 explorer on Sec. 29-5n-17w. Company engineer is Dean Sheldon.

Castaic Test Resumes Drilling

George Allen has resumed drilling operations in his Allen No. 1 test on Sec. 19-5n-16w in the Castaic area and according to last reports was drilling around 2600 ft. Continental Oil's Alexander No. 1 on Sec. 23-5n-17w is a location. Humble Oil's Newhall Corporation as this is set down is coring at 10,849 ft. The company's N.L. & F. No 6 is coring at 10,795 ft. Both projects are on Sec. 24-4n-17w and both are credited with interesting showings.

Tevis Morrow Oil Company's W. F. No. 38 in the Placerita Field. Pike Drilling Company, drilling contractor. Left to right: J. H. Prewitt, driller; W. R. Wilson, derrick; I. B. Popnoe, cathead; Ray Hites, racker.

Bartholomaus Test Suspended

Bell Petroleum has suspended drilling at 2988 ft. and pulled tubing from Bush Bar No. 1 on Sec. 6-2n-14w in the Bartholomaus Canyon area, Los Angeles County. The company has a location for its Dubois No. 1 on the section and in view of the negative results of Bush Bar No. 1, the Dubois project may not be drilled. However, nothing official has been announced in this direction.

Seal Beach Try Digging

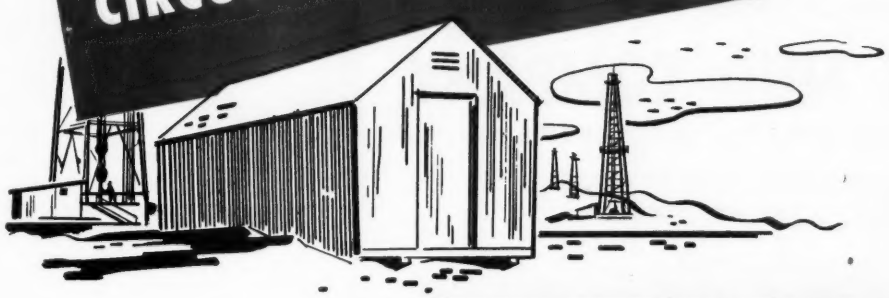
On Sec. 2-5s-12w in the Seal Beach area, Continental Oil Company is drilling ahead below 9000 ft. with its Bixby No. 62 test. Still a location is Continental's Elbe USL No. 1 in the Ridge Basin area along the Ridge Route in Sec 20-7n-17w. At Whitney Canyon the company's Phillips No. 1 on Sec. 6-3n-15w is drilling at 2900 ft.

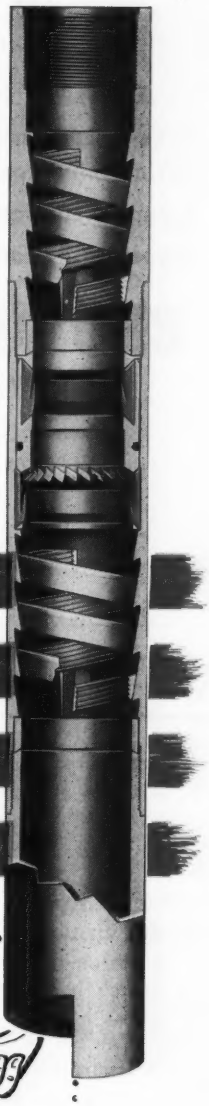
San Fernando Lease Setting

A lively leasing campaign is in progress in San Fernando Valley, particularly in the Pacoima and Granada Hills area. Superior Oil and Texas Company appear to be the

"data for the doghouse"

on BOWEN RELEASING AND CIRCULATING OVERSHOTS





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HERE'S A TOOL that gives you every advantage for quick recovery of fish to be externally engaged. Without adjustment it catches drill pipe—coupling *or* tool joint, whichever is up! And not only grips the fish in a patented non-crushing "grapple grip" that tightens as pull increases, but this Bowen Releasing and Circulating Overshot automatically mills and conditions jagged ends of the fish to permit full pack-off for high pressure circulation through the fish. A Bowen Releasing and Circulating Overshot is your best insurance against excessive lost time in the event of a twist-off—have one handy on your next well!

HERE'S HOW IT WORKS

TO ENGAGE THE FISH you need only connect the Bowen Overshot to the fishing string and run-in to the top of the fish. At this point, rotate right and let down until the fish enters the Overshot. For jagged ends of pipe, rotate slowly to the right as you gradually lower the fishing string. This allows the cutters to mill the jagged ends of the fish for full positive engagement and better seal when circulating. Once the Overshot is settled securely over the fish, neutralize the torque and pull up on the fishing string.
TO RELEASE FROM THE FISH drop the weight of the fishing string heavily against the Overshot. Then at the same time lift and rotate the fishing string to the right. This expands the spiralling grapple and permits easy pull-away from the fish.
TO CIRCULATE AND ROTATE when the fish does not come free on a straight pull, start circulation and while maintaining an upward pull, rotate *violently* as much as the fishing string will stand. The Bowen Releasing and Circulating Overshot is ruggedly built to withstand the toughest fishing jobs!

AND HERE'S THE REASON WHY

When a Bowen Releasing and Circulating Overshot is rotated to the right and lowered over the fish, drag of the fish against the bore of the grapple causes it to unwind and expand sufficiently to allow the fish to enter. As upward pull is exerted, the spiralling grapple is contracted by the tapers in the bowl to wedge and set the deep cut wickers about the entire circumference of the fish. The pipe grapple or the tool joint grapple grips firmly and evenly over a large area of the fish in much the same manner that the "Chinese Handcuff," illustrated at right, tightens when pull is exerted. As pull is increased, the grapple tightens about the fish and the greater the pull, the tighter the grip *without distortion* to the fish!

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most active participants. In the valley's Zelza area Richfield is understood planning a wildcat well on Sec. 28-2n-16w.

Weldon Canyon Explorer Spuds

Apex Petroleum Corporation, Ltd., Long Beach has begun drilling its Weldon No. 1 test on Sec. 24-3n-16w in the Weldon Canyon area, Los Angeles County. Location is some 1000 ft. south of Richfield's Watson No. 1, which quit in June, 1949, after drilling to a depth approximating 4000 ft. In Lopez Canyon, E. L. Doheny, Operator, is digging at 3240 ft. with Reeves No. 1 wildcat on Sec. 1-2n-16w. Interest in the well is divided with Joe Neaves, Jr., widely known Beverly Hills member of the oil fraternity.

Castaic Adds New Test Well

Texas Company is moving ahead with preliminary work on its Stanley No. 1, a wildcat test on Sec. 34-5n-17w in the Castaic area. It is about two and one-half miles northwest of the company's Honor Rancho field. Texaco's Honor Rancho No. 4 on Sec. 6-4n-16w is down 10,086 ft. and testing. No. 6 well on the section is drilling at 5276 ft. Still only a location is the company's McGinnis No. 1 test on Sec. 31-1s-10w in the Puente area.

Reliz Canyon Venture Testing

Drilled and cored to a depth of 6997 ft., Texas Company's Gould No. 1 on Sec. 9-19s-6e in the Reliz Canyon area of Monterey County is undergoing conventional tests. In the Oasis area, F. Reich No. 1, another Texaco wildcat, is drilling and coring at 4200 ft. on Sec. 24-20s-7e. Jergins oil has two wells going in the Los Lobos area on Sec. 9-23s-10e. Aurignac No. 2 is drilling at 2540 ft., and USL No. 25-9 is coring at 6476 ft.

Beach Well Interesting

Charles S. Black may have opened a new zone with his Black Oil No. 1 on Sec. 2-6s-11w in the Huntington Beach area. The well is on the east side of the field, south of Five Points. It was completed at a plugged depth of 3204 ft. for a gross output on the pump of 150 barrels daily. The new well is an old job originally drilled by Howard O'Brien to around 2800 ft. The drill site is bounded roughly by Rochester, Quincy, California and Delaware streets. It is about four blocks south of the Huntington Beach high school grounds.

Orange County Wildcat Swabs

After drilling to 9826 ft., Shell Oil Company plugged back to 1620 ft. with its Irvine One No. 44-166 in the San Joaquin Hills of Orange County and at last reports was swabbing for production. The well is on Sec. 11-7s-9w. At Corona Del Mar, Shell's Irvine Four No. 51-130 on Sec. 5-7s-9w is making hole at 8900 ft. Continental Oil's Anaheim Comm. No. A-1 on Sec. 5-4s-10w not far from Anaheim is poking ahead at 9828 ft. Thomas A. Burke and Blake L. Baldwin's Pocohontas No. 1 prospect job on Sec. 13-6s-11w in the Huntington Beach area is still idle at 2929 ft.

Long Beach Test Staked

In the Long Beach "hot spot," Shell Oil is preparing to drill its First Brethren Church No. 1 test on Sec. 19-4s-12w near the corner of 33rd street and Walnut avenue. On the same section near 32nd street and Cerritos avenus, Rosepass Corporation is in the completion stage with its Burgess-Higby No. 1 test at a plugged depth of 5030 ft. Total bottom is 7299 ft.

Raisin City Adds Production

Sunset Oil Company has finished its Padre No. 12-19 on Sec. 19-15s-18e, the first well drilled by the company since the acquisition of the Padre and Mission properties in the Raisin City field by the Eagle-Sunset interests. Morton A. Sterling, oil engineer and Sunset vice president, reported the well came in flowing at the rate of 240 barrels a day through a 11/64-in. orifice. Sunset is ready to spud in another well.

LINK-BELT Model 49

BUILT TO LAST

The deck design and construction, and the protective coating, zincilate, are proving in the field the money-saving advantages of the Link-Belt Model 49 Shale Shakers.

Less maintenance and more efficient vibration is assured by the use of rubber shear mountings as the isolating medium. This motion restriction at resonance means improved screening; less vibration is transmitted to the supports reducing fatigue and assuring lower maintenance and longer life.

The NRM-134 and NRM-124 Duals are completely unitized with intake mud boxes; the new NRM-124 and NRM-145 Singles are available with or without intake boxes.

Write for Book No. 2336 for details on these new Link-Belt Shale Shakers, NRM-124, NRM-134 and NRM-145.

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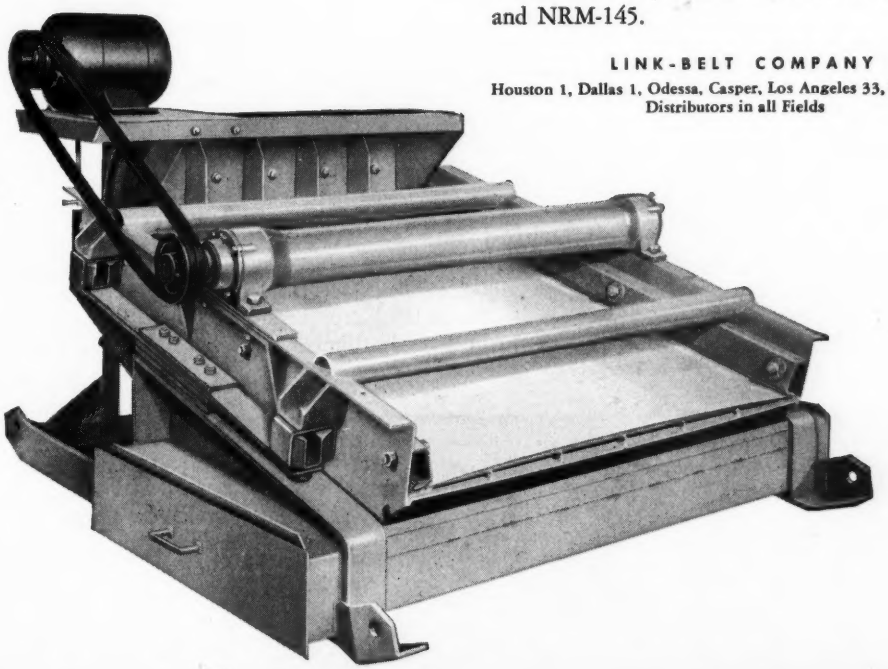

Coastal and Northern District

Coyote Creek Wildcat Spuds

Three and one-half miles north of the Padre Canyon field in Ventura County, Sunray Oil Corporation has spudded its Danshee One No. 1 wildcat on Sec. 26-4n-24w. Location is near Coyote Creek. Way up atop Reyes Peak, Standard Oil has reached 7670 ft. with its ambitious test called Hattie Russell No. 1 on Sec. 11-6n-23w, but is engaged in a fishing job. Idle at 270 ft. is the current status of the Simco, Inc. No. 1 well on Sec. 6-2n-17w in the Simi area. Hancock Oil's Strathearn No. 16-6 on Sec. 6-2n-18w is making hole at 876 ft.

Piru Test Abandoned

A depth of 3882 ft. ended Continental Oil's search for new petroleum on Sec. 15-5n-18w in the Piru area, Ventura County. The hunt was made through the medium of Continental - Herley - USL No. 1. Lloyd Corporation is drilling at 6111 ft. with No. S-3 test on Sec. 20-3n-22w in the widening Ventura Avenue area. Pacific Supply Cooperative's Nathan No. 10 on Sec. 23-5n-20w in the Sespe area is idle temporarily at 632 ft.

Conejo Job Spuds

Wallace M. Nelson has spudded his Calleguas No. 5 well on Sec. 33-2n-20w in the Conejo field of Ventura County. The operator now has four wells on production in the field and intends to keep a string of tools active until 20 wells have been completed. At Hopper Canyon, Oilfield Equipment and Supply Company's Commander No. 10-F is in at 3925 ft. pumping 85 barrels a day.

Tip Top Try Quits

In the Tip Top-Fresno area of Ventura County, Union Oil has pulled out of its Ex-Mission Weldon Canyon No. 3 test on Sec. 3-3n-23w. Drilling came to a halt at 4000 ft. Union's No. 4 try on the same section is plowing through the shallower formations. At Orcutt in Santa Barbara County, the company's test known as Hartnell No. 12 on Sec. 22-9n-34w continues to dig ahead at 6570 ft.

Carpinteria Well Testing

D. S. Fletcher continues to work with his Catlin-Fletcher No. 1 test on Sec. 33-4n-25w in the Carpinteria area. The project is bottomed at 1560 feet and last reports indicate tubing had been lowered to 1504 ft. and preparations were being made to wash perforations.

General Petroleum Corporation's Notten No. 12 in the Ventura Ave. Field. Left to right: Byron Hall, helper; T. D. Stevens, helper; Howard Hall, helper; Guy Brakbill, helper.

Elwood Test Now History

In the Elwood area of Santa Barbara County, finis has been written to Fowler-Hull & Company's Rutherford No. 1 on Sec. 36-5n-30w. Encouragement evidently was lacking to bottom at 2907 ft. At Corral De Quati, Shell Oil's Orton No. 1 wildcat on Sec. 23-7n-30w is drilling at 2375 ft. Midway between the Shell venture and the Zaca Creek field, Laguna Consolidated Oil Company is planning a test on more than 2600 acres. The company at present is testing a water well drilled by Union and now planned for use by Laguna Consolidated in connection with drilling operations there. Honolulu Oil's Mills No. 1(a prospect job on Sec. 26-8n-30w in Figueroa Mountain, is searching for oil at a depth near 3400 ft.

La Honda Try Works

Nearing the act of spudding is Richfield Oil's Isenberg No. 1 wildcat on Sec. 12-7s-4w in the La Honda area, San Mateo County. At Sargent in Santa Clara County, Fred W. Shire and Dan A. Fisher's No. 1 explorer is temporarily idle at 186 ft. Drill site is on Sec. 36-11s-3e.

Kirby Hills Wildcat Digs

On ground north of Kirby Hills, Shell Oil's Shell-Trico Unit One No. 1 is drilling ahead below 6000 ft. on Sec. 19-4n-1e, Solano County. Standard has staked location for Kirby Comm. No. 7 east of Kirby Hills on Sec. 13-4n-1w.

Humboldt Try Listed

West Coast Oil Company of Santa Barbara is preparing to drill an important exploratory well on the northeast quarter of Sec. 21-1n-2w, Humboldt County. The company's lease embraces more than 300 acres about two miles west of the town of Dyersville.

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Santa Cruz Try Works

Union Oil's Teresa Hihn No. 1 on Sec. 34-10s-1e in the Santa Cruz area of Santa Cruz County has been drilled and cored to 3715 ft., a point at which electric log and dipmeter was run. The company has tried the area for oil before. It drilled two tests north of Aptos a couple of years back. The lease takes in no less than 1000 acres owned by the granddaughter of one of Santa Cruz's wealthy residents, the late F. A. Hihn.

Princeton Find Good

Honolulu Oil's Honolulu-Humble-Wild Goose No. 1, a new discovery well on Sec. 17-17n-1e in the Princeton area of Butte County, flowed at the rate of 3,500,000 cubic ft. of gas daily from a plugged bottom of 3400 ft. Total depth is 4009 ft. The find was achieved on ground about seven miles northeast of the Colusa gas field. Honolulu, meantime, is drilling at 1560 ft. with its No. 2 well on Sec. 18-17s-1e.

Vaca Mountain Wildcat Drills

Napa County's Vaca Mountain area has the attention of Western Gulf with a wildcat called J. N. Knowles No. 1 on Sec. 28-9n-3w. The venture at last reports was digging at 1234 ft. Texas Company's Aldrich No. 1 gas test is a location on Sec. 17-4n-4e, northeast of Isleton in Sacramento County. George Hadley, one of the first to envision the production possibilities in Cuyama Valley, is engaged in an interesting exploratory campaign in Eureka County. He has drilled five cable tool wells on the Bruffey Ranch to depths ranging from 30 to 600 ft. He is understood now ready to drill a brace of test wells in the adjacent Union Pass area.

Donald M. Davis, prominent geologist who recently resigned from Union Oil Company,, has opened consulting offices on Moraga Drive, West Bel-Air.

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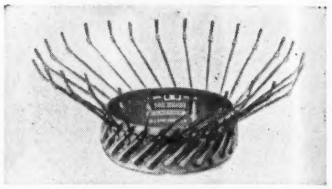

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San Joaquin Valley

Belgian Anticline Wildcat Well Staked

Lawndale Exploration Company and Jasper Petroleum Company in combination are starting work on their interesting well on Sec. 30-30s-22e in the Belgian Anticline area, Kern County. Also on the section, Pacific Western has completed its No. 53A at 5003 ft. for a flow of 245 barrels of 36.5 gravity oil a day along with 1,600,000 cubic ft. of gas. Ohio Oil's Tulare Fee No. 1 test on Sec. 19-30s-22e has reached a depth of 4170 ft. and is fishing.

Bellevue Try Staked

Superior Oil Company has location staked for its Quinn et al No. 32-2 test on Sec. 2-30s-25e a southeast offset to its new Quinn well in the limited Bellevue field immediately southeast of the Greeley field. In the Bacon Hills area, Superior's Theta No. 54-20 test on Sec. 20-28s-20e is making hole below 2300 ft.

Pleito Creek Wildcat Rigs

Humble Oil & Refining is rigging for its KCL-B No. 34-35 on Sec. 35-11n-21w in the Pleito Creek area, four miles southwest of Wheeler Ridge field. The project is a follow-up to the company's discovery well on the same section. At present the pool opener was pumping at the rate of 46 barrels of 16.6 gravity oil daily from a depth plugged at 4150 ft. Total bottom is 5451 ft.

Dyer Creek Venture Done

J. D. Wrather, Jr. has thrown in the towel for his Smith-Cairns No. 1 wildcat on Sec. 11-26s-27e at Dyer Creek, Kern County. Drilled to 2304 ft., the well subsequently was plugged back to 2241 ft. On pump test of the intervals perforated at 2206-2222 and 2227-2230 ft., the well showed only a slight amount of oil, resulting in abandonment. The Vedder was topped at 2270 ft.

Reef Ridge Try Standing

With the hole plugged back from 1803 to 540 ft., Reef Ridge Oil Company's No. 1 test on Sec. 10-23s-16e at Reef Ridge in Kings County is standing idle. Glen H. Mitchel and the Mitchel Company have pulled out of their Mitchel-Lucier No. 1, an exploratory venture on Sec. 19-24s-18e in Pyramid Hills. Drilling stopped at 1802 ft. Roy Gill and Alva McPhail are making hole at 2600 ft. with their wildcat known as McPhail No. 1 in the Avenal area on Sec. 14-24s-18e. Fishing junk currently occupies the attention of General Petroleum with its Boston Land Company No. 48 test on Sec. 7-20s-19e in the Huron area.

Rosedale Try Works

On Sec. 15-29s-26e in the Rosedale area of Kern County, Humble Oil & Refining is about to spud its Rosedale-Stevens Comm. No. 1. The company's Kirschenman No. 1 and E. Westberg et al No. 12 are locations at East Mountain View in Sections 27 and 34-30s-29e, respectively.

Kern Front Test Drills

East of the Kern Front field, Dohm Oil Company's Dohm No. 1 at last reports was coring at 1250 ft. Location is on Sec. 13-28s-17e North of the Edison field, Charles Behr & Sons has location made for Behr No. 1 wildcat on Sec. 12-30s-29e. Still a location at this writing is Cannon Drilling Company's Cannon No. 1, a test well at Poso Creek on Sec. 20-27s-27e. Kern Oil Company, Ltd., has spudded its Portals No. 82 on Sec. 33-29s-29e in the Race Track Hill area.

Ciervo Well Has New Owner

Idria Oil Company of Brea has acquired Ciervo Oil Corporation's Nichols No. 1 test on Sec. 28-16s 12e in the Ciervo area of San Benito County. Indications are that the new operator will carry the project on down from present level of 1252 ft.

Curry Hills Wildcat Quits

Signal Oil & Gas Company abandoned Signal-Honolulu-Pauson No. 1 on Sec. 32-21s-15e in the Curry Hills area, southeast of the Jacalitos field near Coalinga, Fresno County. The test well bottomed at

Tevis Morrow Oil Company's K.P.M. No. 23 in the Placerita Field. Pike Drilling Company, drilling contractor. Left to right: Bob Waymire, driller; Jim Waymire, cathead; Gene Thouvenell, racker; Fred Hamilton, derrick.

5588 ft. Seaboard Oil's Seaboard-SAFL No. 74-24 on Sec. 34-15s-18e on wildcat ground near Raisin City continues to drill deeper at 5350 ft. Near Panoche Creek, L. M. Lockhart's Souza No. 1-36 is drilling ahead below 8950 ft. in a hunt for new oil on Sec. 36-14s-12w. Humble Oil's So. Pac. No. B-1 wildcat on Sec. 25-17s-15e in the Cantua Creek area is making hole at 8790 ft.

Camden Try Dry

Elmer C. von Glahn abandoned his second well in the Camden field he opened up last June in Fresno County. The second well went to a total depth of 7041 ft. and in failing to pick up production appears to limit the possible extent of the field. The area was opened up by von Glahn's Coleman Comm. No. 1 well from 12 ft. of sand in the interval of 6126-6138 ft. The well flowed clean 33 gravity oil at a rate better than 100 barrels daily. The follow-up try was 800 ft. south of the discovery and it was drilled to the producing zone. However, the zone was found pinched out leaving only a couple of feet of sand. The well was then whipstocked north without avail. North of the discovery, location is staked for Coleman Comm. No. 3 on Sec. 8-17s-20e. Victory Oil Company of Long Beach also has location staked for its No. 1 on the same section. On Sec. 6-17s-20e, Santa Fe Drilling Company's Dyson No. 1 wildcat is poking deeper at 3200 ft.

Salt Creek Try Completed

Independent Exploration Company's Anderson No. 3, a test well on Sec. 18-29s-21e in the Salt Creek area, has been completed at a plugged depth of 2294 ft. Initial flow was 175 barrels of 19.6 gravity oil a day. Total depth is 2394 ft. A total of 130 ft. of Phacoides zone was encountered with the top 65 ft. oil sand. Continuing its development in the area, the company is getting ready to spud Roco No. 15 on Sec. 18-29s-21e. This well probably will go to 3200 ft. for a test of Point of Rocks. Location is on a farmout from Richfield. In the Santos Creek area, Independent's EP-USL No. 2 on Sec. 4-29s-20e is putting out all water on the pump from 1074 ft. At last reports the bottom of the well was plugged off for further tests. The Button Bed zone was picked up from 450 to 550 ft. The company has location staked for a test known as Malaga No. 13 on Sec. 15-30s-29e in the Edison area.

Tejon Hills Active Area

Nels A. Madsen is making ready to drill a test well on Sec. 11-11n-18w east of Tejon Hills. The well is called Louise No. 1. LeRoy C. Gould, Operator, is down 850 ft. with Tejon No. 18-1 on Sec. 18-11n-17w, but fishing. J. F. Kosanke's No. K-4-14 on Sec. 14-11n-18w is coring below 850 ft.

Hollister Wildcat Digs

Northwest of the town of Hollister, Texas Company's O'Connell No. 1 wildcat on Sec. 14-12s-4e, San Benito County, is coring and drilling ahead below 4600 ft. In the colorfully named Bitterwater area, Tex-

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aco has location staked for Tully No. 1 wildcat on Sec. 21-18s-10e.

San Luis Obispo Development Wide

San Luis Obispo County currently is the scene of several interesting wildcat wells. Colquitt Drilling Company of Wasco has reached 915 ft. with its Colquitt No. 1 on Sec. 7-32s-22e in Elkhorn Valley, but is tied up at that depth with a fishing job. On the Gonyer Anticline in the Hovey Hills back of Taft, Bob Lytle is drilling at an inconclusive depth with his Dougherty No. 1 on Sec. 6-11n-24w. At Panorama Hills, British-American Oil Producing is drilling shale at 2300 ft. with its Dodds-Thomas Unit No 3 on Sec. 9-31s-21e. General Petroleum's Hillman-Darnell No. 22-34 is digging below 7600 ft. Location is near Shandon on Sec. 34-25s-14e. East of Templeton, Gene Reid Drilling Company is drilling at 3710 ft with Heilman No. 1 on Sec. 35-27s-12e. Gray sand was cored in the Middle Miocene. Shell Oil's McDonald Est. No. 28-30, an exploratory venture on Sec. 30-29s-18e near Simmler is going down below 8800 ft. Navy Oil's Navy No. 2 wildcat on Sec. 5-11n-26w on the Carrizo Plains is idle at 2506 ft. but signs indicated that it may be deepened in a further quest for new oil.

Pixley Try Dry

Drilled and cored to 4600 ft. without commercial showings is the story of Kern Oil Company's Deer Creek No. 81 wildcat in the Pixley area, Sec. 18-23s-26e, Tulare County. The company naturally has pulled out.

San Emidio Try Digging

A survey of the San Emidio area in Kern County revealed that Richfield was drilling at 5340 ft. with its San Emidio No. A-84-28 on wildcat ground in Sec. 28-11n-22w. Western Gulf has begun drilling its KCL-Rock Pit No. 83-12 on Sec. 12-11n-22w.

Tunis Creek Wildcat Fails

Tests failed to show anything along commercial lines with the result Standard of California abandoned its Tejon Ranch No. 29-21 on Sec. 21-11-18w in the Tunis Creek area. Drilling and coring came to a halt at 2200 ft. The company's No. 29-29 on Sec. 29-11n-18w is ready to start digging. Standard UONPR No. X55-30R on Sec. 30-30s-23e, a deep test at Elk Hills, ran electric log to present bottom at 11,710 ft. and evidently failed to show anything to cause excitement.

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Bacon Hills Test Drills

West of the Bacon Hills field, Texas Company's Tolco No. 1 on Sec. 20-28s-20e is drilling and coring for production below 3400 ft. At Blackwell Corner, Texaco's Occidental No. 1 on Sec. 8-27s-20e is slugging away at 1460 ft. North of Antelope Hills proper, the company is ready to start work on its Effie Martin No. 3 on Sec. 14-27s-19e.

Trico Try Drills Ahead

The South Trico area of Kern County is the locale of an interesting wildcat well being drilled on Sec. 20-25s-24e by Harry H. Magee, Operator. The project at last reports was boring at 2768 ft.

Cuyama Valley Test Well Spuds

Richfield Oil has spudded its Cox No. 46-5 on Sec. 5-9n-26e in the South Cuyama area, a third attempt to extend the Hibberd pay. Early this year the company proved a new fault block on the section with a discovery well putting out 225 barrels a day from the Hibberd zone. The find was generally regarded as proving up at least 20 new locations. However, this notion has been more or less dispelled by dusters since drilled east and northeast.

West Salt Creek Wildcat Drilling

Some 1200 ft. north and 900 ft. west from the southeast corner of Sec. 26-29s-20e in the West Salt Creek area, Cal-Air Petroleum Corporation is down 350 ft. with cable tools in its Sun Crest No. 1. A 7-in. casing string was cemented at 324 ft. In the Williams area, Palomar Refining Company's Voight No. 2 on Sec. 6-28s-20e is coring at 2700 ft.

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Rocky Mountain NEWS

Colorado—Idaho—Montana—New Mexico—Utah—Wyoming—Western Canada

The Julesburg Basin of western Nebraska and northeastern Colorado continues to hold the interest of oil operators in the Rocky mountain region, particularly a number of the smaller independents. Low drilling costs and the assurance of good pipeline markets shaping up in 1952 make this area especially attractive.

Two new strikes were reported in Kimball county, Nebraska, in mid-August. Wytex Petroleum of Houston and Derby Oil of Wichita, enterprising independents, reported a recovery of 4800 ft. of oil in a drill-stem test of the "D" sand from 5542-5550 ft. in their joint venture, the No. 1 Dunn in 3-13n-53w. The other discovery was credited to Gulf Oil Co. in a test of the Dakota sand, also in Kimball county. The wildcat southwest of the Kimball field, which was Gulf's first well in the Julesburg Basin, found the "J" sand at 7333 ft. and recovered 360 ft. of oil cut mud and 2070 ft. of gassy oil. Apparently the venture is commercial.

Until recently, Kimball county was among the "dry hole" counties of Western Nebraska. Needless to say, the two successful strikes fanned excitement in this area. Trigood Oil Co. of Casper moved in tools for another venture about two and one-half miles north of the Wytex strike. Objective will be the "J" sand of the Dakota series.

On the Colorado side of the current Julesburg Basin play, Wycolo Development swabbed 10 bbls. oil per hour at a venture in Weld County, and National Associated staked a wildcat test 30 miles southeast of Denver, in Douglas County.

In Montana, interest continues to center in the northeastern corner of the state following Shell's sensational strike at Richey—second find for the big Williston Basin. Texas Co. is digging below 6500 ft. at the No. 1 Northern Pacific railroad well southeast of the Shell discovery (near Glendive). A sale of Montana state oil and gas leases at Helena Aug. 15 brought high prices from major firms and individuals. Lands in Fallon, McCone, Dawson, Richland, Choteau, Roosevelt, Teton and Wibaux counties brought as high as $61 per acre from lease brokers, it was reported.

Shell, meanwhile, was coring below 7,345 ft. at the Richey discovery well to fully evaluate the extent of the structure, which produced from Madison lime. The well started flowing during deepening operations, but was "killed" for further exploration. On its nearby Pine Unit venture, Shell was reported testing around 7200 ft., but carried the hole as "tight."

Shell was also busy in Utah, pulling cores from its Bluff Unit test in San Juan county. The venture was below 7250 ft., but no information was released.

Sun Oil Co. has some encouragement at its South Ouray wildcat in Uintah County, where cores showed some black oil saturation. The cores were taken from a shale formation below 7240 ft., and showed some bleeding.

Idaho got back on the active list of exploration efforts with Phillips Petroleum staking a 10,800 ft. Morrison test on the Horseshoe anticline.

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Reports from Farmington, N. M., indicated Southern Union Gas Co. had found saturation in the Dakota sand in a deepened well in the LaPlata pool, San Juan County. There was no immediate confirmation of the reports of "bleeding" saturation in cores taken from the well. If true, it would have great significance for possibilities of Dakota oil production in the area, which produces natural gas from Upper Cretaceous sands.

In Wyoming, the possibility of another deep structure in the Big Horn Basin loomed with Wilshire Oil Co. of Los Angeles cutting 40 ft. of staining and some saturation in the Embar lime at the Meeteetse wildcat in Park County. Two drillstem tests failed in the deep venture, now below 11,000 ft., or about 1,000 ft. deeper than Pure's Worland field to the south. Heavy acid treatment probably will be required to loosen the tight formation and meanwhile, it is anticipated the venture will deepen to check on the Tensleep sand. Wilshire farmed out the acreage from Superior Oil Co., whose "Big Bertha" rig (National 160) is still idle since drilling the world's deepest hole at Pacific Creek, Wyo. (below 20,000 ft.) two years ago.

Only 40 miles east of the Meeteetse wildcat, Husky Oil Co. of Cody is drilling another deep test which may shed further light on possibilities of additional production along the main axis of the Big Horn Basin.

Interest in the Big Horn Basin has been revived this year with booming production at Bonanza and General Petroleum's new field development at Slick Creek, near Worland. Just recently, General Petroleum made a strike in the Embar lime at Manderson. The oil, however, was accompanied by heavy hydrogen sulfide gas, similar to that found in the Worland field.

Due to the sulfur problem, General Petroleum is deepening the Manderson discovery to the Tensleep sand in the hope of finding sweet oil. Its new Slick Creek field on the southeast side of Worland is also plagued with sulfur gas, but reserves appear sufficient to justify building a pipeline to the Worland field to convey this gas to the processing plant of the Texas Gulf Sulphur Co. No definite announcement of the pipeline has been made. There are persistent reports, too, that Texas Gulf Sulphur will double the capacity of its sulfur plant in the Worland field, due to the critical demand for the chemical and the fact that the present output restricts crude oil production in the field. Shipments of sulfur are being made regularly.

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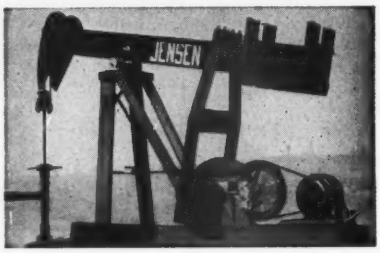

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Drilling is continuing at a rapid pace in the Bonanza field, with some operators meeting disappointment in efforts to extend the productive limits.

Drilling activity is also high in the Glenrock area of central Wyoming, with new pool wells brought in regularly.

Wyoming continues to lead Rocky Mountain states in drilling activity, with nearly 95 wildcats drilled or under way this year. Colorado has enjoyed the biggest drilling activity in its history, largely due to the Julesburg Basin play stemming from new discoveries in southwestern Nebraska, followed by a number of pools in Colorado. The count of wildcats for Colorado this year is 50, while Nebraska is slightly ahead with 54 new ventures.

In the personal news of the region, oil operators were interested in the announcement that Warwick M. Downing will head Colorado's new oil and gas conservation commission. Other members are H. C. Breitschneider, vice chairman, and John E. Cronin, secretary.

Shell Oil opened a division office in Denver to handle operations in the five Rocky mountain states of South Dakota, Nebraska, Colorado, New Mexico and southeast Wyoming. J. E. Gray heads the new division office, while J. W. McDonald of Tulsa is geologist; W. S. Henry of Tulsa, division landman and D. D. Peters, division attorney.

Frank Castleberry, well known scout and landman for Atlantic Refining in Casper, was transferred to Midland, Tex., as division landman for the same firm. His place in Casper was taken by Tom Pace.

Rigs active in the Rocky Mountain region stood around 180 in mid-August, still near the all-time record.

Edison Area Busy Center

Idle at 682 ft. is the present position of San Joaquin Drilling Company's Di Giorgio No. 5 test on Sec. 32-30s-30e in the Edison area. At North Edison, Lyle A. Garner is fishing cutters in his Barneson No. 1 on Sec. 12-30s-29e. Present depth of the well is 2930 ft. California Exploration and Macmillan Petroleum's Clerico No. 1 is still a location on Sec. 28-30s-29e at West Edison.

With Drilling Contractors

Thomas P. Pike Drilling Company is busy with contract jobs in a number of interesting areas. Present contracts include wells for Union Oil at East Coyote and at Bardsdale, Continental Oil at Anaheim, Standard of California at Elk Hills, Jergins Oil at San Ardo and Shell Oil at Corona Del Mar. Pike also is drilling a well for Edwin W. Pauley near Renosa in northeast Mexico, across the Rio Grande from McAllen, Texas. This is the fourth well in the field which Pike has drilled for this operator. For Petroleos Mexicanos in Baja California, Pike Drilling de Mexico is moving ahead with San Angel No. 1 some 500 miles from the California border and 12 miles inland from San Ignacio Lagoon on the west coast of the peninsula.

Based on oil industry profits there should be no diminution in oil well drilling for a long time to come, if ever. Results for the first six months indicated that industry earnings for 1951 will top any year in history. Net income for 30 typical oil companies in the first half of this year were 41.4 per cent higher than in the corresponding period a year ago. In the event second half earnings this year are at least on par with the last six months of 1950, earnings for the full year of this group of companies will jump above $2,000,000,000 for the first time on record. The best year previous was 1948 when the same combination of companies earned $1,929,000,000.

With Thomas P. Pike Drilling Company as contractor, Max Pray and Elisha Walker, Jr., have finished Nidever No. 2 on Sec. 24-20s-15e for 400 barrels of net oil daily and extended the East Coalinga field to the west. Total bottom is 7860 ft. and redrilled depth 7800 feet.

Union Oil Company currently is using 15 contract strings of drilling tools, including one repair crew, in its California field operations. The work is distributed as follows: six drilling crews and one repair crew in the Los Angeles Basin, two drilling crews in the Ventura division, and six drilling crews in the Coastal division.

Bell & Burden, Inc., contract driller, in its own right is drilling and coring at 4100 ft. with Riskin No. 1 wildcat in the San Gregorio Creek area, San Mateo County. A formation test of the interval of 3740-3939 ft., showed a recovery of gassy, oily mud.

Brown Drilling Company is digging steadily ahead below 1000 ft. with Tide Water Associated Oil's Mangels No. 1 wildcat on Sec. 14-4n-6w, southeast of the city of Petaluma in Sonoma County. In the Rio Vista area of Solano County, the contractor is drilling at 6200 ft. in Brazos Oil & Gas Company's Concord Gun Club No. 1, a wildcat on Sec. 31-3n-1e.

Alma Benjamin, popular secretary of Severns Drilling Company in Los Angeles, celebrated her birthday on August 17. Alma is known as one of the most efficient secretaries in the drilling branch of the petroleum industry.

K. L. Kellogg & Sons is contractor on the Ted Sterling Operator, Rynne-Fisher No. 1 wildcat on Sec. 35-5n-17w in the Castaic area. The well at last reports was digging at 3240 ft. Kellogg also is drilling Superior Oil's N.L. & F. No. 1 test on Sec. 8-4n-16w at Castaic. The venture is making hole at 7325 ft.

California Research Corporation, a wholly owned subsidiary of Standard Oil of California, has a laboratory well especially set up to provide research information and drilling techniques. The rig stands near the La Habra laboratory and it is actually a laboratory tool. The oil-bearing rock formation through which this rig drills is man-made. This "rock" is conveniently located near the surface where it can be examined instead at depths where its natural duplicate is normally found. Prime purpose of the well is the study and comparison of the efficiency and economy of various methods of drilling and well completion under controlled conditions. In a representative test, a cylindrical core of "rock" is lowered into a large pressure vessel, which is suspended near the bottom of a 45-ft. shaft directly below the rig. The pressure vessel is connected to the surface by steel casing and other piping. California Research explained that through this piping oil and water from surface storage tanks can be pumped into the sample formation in proportions approximately those estimated to exist in a natural underground oil reservoir. The company's research crew in its next step lowers regulation bit, drill pipe and other gear into the hole and drills through the sample formation. During this operation, they can experiment with many types of drilling mud and at the same time determine which type of drilling equipment and which methods work best of all. Following drilling through the sample formation, a liner is set and the well is "washed." At this point trials can be conducted of different well washing chemicals, methods and equipment.

Clyde Hall, contractor is completing Rothschild Oil's Giumarra No. 5 in the Edison field. Depth is 3150 ft.

The Martin-Decker Tong Torque Instrument

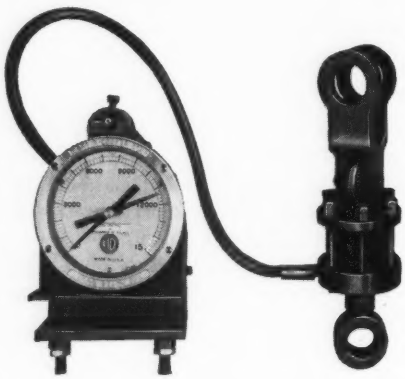
Martin-Decker Corporation states that it has recently developed a Tong Torque Instrument which removes the two basic causes of drill pipe failure—overtonging, which results in pulled and distorted threads, and running collars too loose, which allows the joints to work, resulting in cracks and washouts. This instrument, which has been developed for measuring torque when making up and breaking out drill collar joints, is also useful for torque measurements on pipe and casing joints. A maximum pull can be established and held, regardless of the various operating variables.

It is now possible to accurately measure the cable pull when making joints with standard tongs. A clevis has been designed to fit the tong handle so that the cylinder can be attached or removed simply and easily without any alteration to the lever. The regular cable, rope or chain can be connected to the other end of the cylinder.

The cable pull is converted to hydraulic pressure for actuating the Bourdon tube in the pressure gauge. A bracket is supplied for mounting the pressure gauge on the tong lever where it is in direct view of the driller. An airplane type ball and socket joint in the clevis keeps the cylinder in line with the cable.

A maximum cable pull of 15,000 pounds has been provided on the direct reading dial gauge. This would be 60,000 ft. lb. torque when using a 4-ft. lever. A separate pointer has been included for either indicating maximum pull for the joint or for manually setting to the maximum pull to be used by the crew.

All of the parts are high-strength alloy material properly heat-treated for maximum toughness. The cylinder parts are carefully machined and polished. Extra large bearing surfaces have been provided for long, trouble-free service. A dust seal on the piston rods protects the cylinder parts from dust and dirt.



This instrument makes possible setting up standards for tonging drill collars and other oil field joints. When the drill collar joints are set up with a tongue indicator, they will be the same for each tour regardless of the human fatigue factor, conditions of the cathead drum surface, rope surface friction, etc. It is adaptable to all sizes of collars and joints and is easily adjustable for any desired torque.

For additional information, write Martin-Decker Corporation, Long Beach, California.

Grant Opens Compton Branch

Grant Oil Tool Company announces the opening of a sales and service branch at Compton, California, under the management of Curt Linkey, widely experienced oil operator. The new branch is equipped with adequate warehousing space and facilities to take care of the Company's customers in any and all parts of the Los Angeles basin. Its function is specifically to cut service and delivery time to a minimum and by centralization to improve and expedite sales and service in the basin area in every possible manner. Phone number of the branch office is Newmark 58041.

Sectional Drive Groups For Oil Drilling Rigs

Bulletin No. 381, just released by The National Supply Company, P.O. Box 899, Toledo 1, Ohio, describes sectional drive groups incorporating IDEAL-GYROL fluid drive for Ideal Consolidated Drilling Rigs.

Showing arrangements of two, three and four engine groupings from 250 to 700 hp. capacity, the bulletin describes designs for main and secondary pump drives and discusses operating characteristics. Data on weights, dimensions of the sections, and details of construction and assembly are included.

Texas Co. to Install New Pipe Line

The Texas Company, through Torrey H. Webb, Vice President at Los Angeles, California, has announced its intention to install approximately 30 miles of eight inch pipe line between the Ventura Avenue Oil Field, Ventura, California, and The Texas Company's pipe line pump station at Fillmore, California.

This new installation will permit The Texas Company to transport crude oil from the Ventura district to the Los Angeles Basin refinery area, for processing into petroleum products for military and domestic requirements.

The proposed new pipe line facility of The Texas Company will provide additional pipe line transportation for 15,000 barrels per day and will augment existing Ventura District-Los Angeles area pipe line capacity accordingly.

Globe Opens Three New Field Stores

Development of Globe Oil Tools Company's sales and service organization has necessitated three new and larger field stores which were recently opened in Ventura, California; Odessa, Texas; and Duncan, Oklahoma.

Charles E. Whittaker, Globe President, in making this announcement said, "It is Globe's policy to be of real service to all drilling areas . . . to have available the right equipment when and where it is needed. Each store will give 24 hour service on our complete line of Globe Rock Bits and Junk Catchers.

Tom Ashe and Jack Goodwin, Globe Vice President and Chief Engineer, respectively, were on hand when stores at Duncan (left) and Odessa (center) were opened. Clark Speirs and Warner Greer work out of the Duncan store while H. D. "Spec" Donham makes his headquarters at Odessa. Harold Mears and "Doc" Cook service the Ventura area from their new store (right).

Baroid Opens New Office

The tremendous expansion of oil activity in the West Texas area has prompted Baroid Sales Division of the National Lead Company to establish new service headquarters and field offices in Midland, Texas. Offices will be located in the new McClintic Building.

Heading drilling mud sales and service from the new offices will be J. J. Edwards, assistant manager of Baroid's Mid-Continent Division in charge of West Texas, New Mexico, North Central Texas and the Panhandle. Working with Edwards will be D. D. Varnell, Mid-Continent Division assistant sales manager, and S. E. (Tex) Siginton, district superintendent for West Texas and New Mexico.

S. E. Geffen, Baroid district superintendent for North Texas and the Permian Basin, will be in charge of the Baroid Well Logging Service in the area.

All the men in the new field office are well known to the drilling industry, and these new service headquarters will enable Baroid to provide faster service to this busy area.

$100,000,000 A Year For Research

No industry is more deeply involved in scientific research than oil. Annual expenditures for this purpose now run to more than $100,000,000 a year. The number of technically trained men engaged in research and development is at least 40 times as large as in 1916.

There are three primary reasons for research—to evolve new oil products, to better existing products, and to reduce the cost to both producer and consumer. Oil has been successful in all three fields. In 35 years, the actual yield of gasoline from a barrel of crude oil has more than doubled. The potential yield has quadrupled. And the average octane rating of motor gasoline has been increased to the point where, in an engine designed to utilize it effectively, one gallon of today's gas will do the work of two of 1916 quality.

Today's piston engines for military planes produce 10 times as much power, with only half the weight per horsepower, as the best engines in use in World War I. The tremendous improvement that has taken place in the quality of aviation gas and lubricants has been a major factor in producing the result.

To cite one more achievement of research, in spite of the improvement in quality, the price of gasoline in the United States, excluding taxes, since the last world war has been so low that it represents a saving to the public of over $4,000,000,000 a year by comparison with the 1920 price. Technology has played a big role in holding costs down.

Oil looks with justified pride on its past achievements, but it isn't standing still and patting itself on the back. Research is going ahead at an accelerating rate. Chemistry is working more and more miracles. And everyone in the country benefits.

The oil industry, never missing an opportunity to glamorize its place in the sun, came up with this "pome" in connection with the selection of Miss Pat Seabeck of Casper for the title of "Miss Rocky Mountain Oil Capital" at the Central Wyoming Fair. From the offices of General Petroleum Corp. came these verses:

What are pretty girls made of?
Sugar and spice
'N everything nice,
That's what pretty girls are made of!
What makes pretty girls lovelier?
Soap and shampoo,
'N hair-do too,
Start to make pretty girls lovelier.
What do pretty girls dress in?
Sweaters and shorts
'N gowns of all sorts,
The kind they show most "finesse" in.
What are these pretty things made of
Petroleum wells
Supply all the belles,
What these pretty things are made of.

General Petroleum's Howard E. Hannon, Torrance refinery stillman, was the recipient recently of $1,500 from the company as an award for an idea submitted for the improvement of catalytic cracking operations.

THIS LAUGH OFF!!

The rookie reached for the eye examination and was asked if he could read the last line of the chart that looked like this: KZGYSVMNK. "Sure," said the rookie, "I knew him well. Played guard for Notre Dame."

For 40 years she had been married to him, and for 40 years he had never worked a lick—just lazy and shiftless and content to let his poor wife make the living. Finally, from extreme inertia or something, he died. His widow instructed that he be cremated and the ashes delivered to her. When the ashes arrived, she carefully placed them in an hour glass, set it on the mantle, and said: "Now, you worthless bum, at last you're going to work!"

An American couple decided to send a play-pen to a friend in northern Canada on the arrival of her fourth child.

"Thank you so very much for the pen," she wrote them. "It's wonderful—every afternoon I sit in it and read, and the children can't get near me."

"Grandpa, why don't you get a hearing aid?"

"Don't need it, son. Hear more now than I understand."

Little boy to visiting relative, who was taking care of mother and new born babe: "That's not the way mother toasts the bread—she cooks it first, then scratches it."

Teacher: "Define 'unaware'."

Billy: "It's the last thing I take off at night."

The clerk in the department store, although receiving a very small salary, was leading a gay life and gave evidence of having much money. The personnel manager finally called him in and asked:

"How is it, young man, that you, who are receiving a salary of only $30 a week, can spend what must certainly amount to over $100? Have you been left a fortune, or what?"

"It's very simple, sir," he replied. "There are more than 200 employees upstairs here and every payday I raffle off my salary at one dollar a ticket."

A puzzled little girl watched a party of fishermen putting off in their boat. "But, mummy," she asked, "do the fishes like all that beer?"

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